

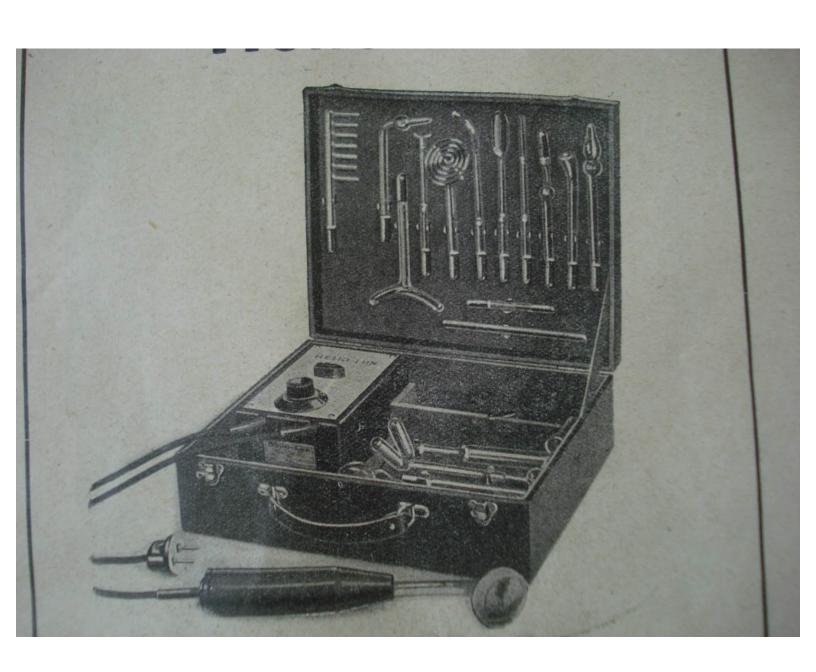
Vorwort!

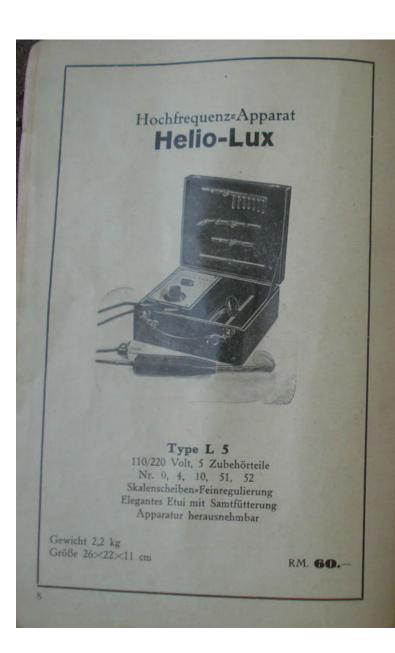
Groß ist die Zahl der Mittel, die zur Gesundheits- und Körperpflege dienen und von allen werden Erfolge gemeldet. Für den Laien ist es daher außerordentlich schwer, sich zu entscheiden, welcher Heilmethode er sich zuwenden soll. Er ist stets im Zweifel, ob für seine Krankheit die von der approbierten Aerzteschaft immer noch bevorzugte Allopathie oder die Pharmacie allein richtig ist, oder ob er sich der vielgepriesenen Biochemie und Homöopathie bedienen, oder das Naturheilversfahren bevorzugen soll.

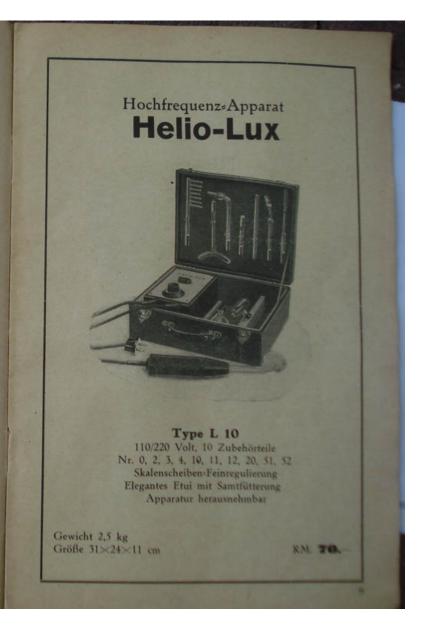
Es soll hier nun nicht beurteilt werden, welches der erwähnten Verfahren am empfehlenswertesten ist, denn dieses hängt zu sehr von den näheren Umständen ab. Wohl aber sei nachdrücklichst festgestellt, daß alle sich darin einig sind. die Elektro-Medizin und damit auch die Hochfrequenzstrome zur Hilfe zu nehmen. Das Helio-Lux-Heilverfahren findet daher bei allen Berufsgruppen, die irgend mit der Gesundheits- und auch Schönheitspflege zu tun haben, Anwendung und verbreitet sich naturgemäß auch in allen Privatkreisen durch die erstaunlichen Erfolge. Wenn auch mancher Arzt, teils aus Rückständigkeit, weil er den neuzeitlichen Errungenschaften nicht gefolgt ist, teils aus leicht verständlichen Gründen materieller Art, die Apparate nur ungern in Privathänden sieht, so sei darauf hingewiesen, daß diese Heimbehandlung nicht etwa bezweckt, in schweren Fällen von der Zurateziehung des Arztes abzuhalten, sondern sie soll vor allem veraltete, bereits bekannte Leiden und Schmerzen heilen und lindern. Ferner sollen die Helio=Lux=Apparate der gesamten Familie bei den vielen Krankheiten leichterer Natur sofortige Hilfe bringen.

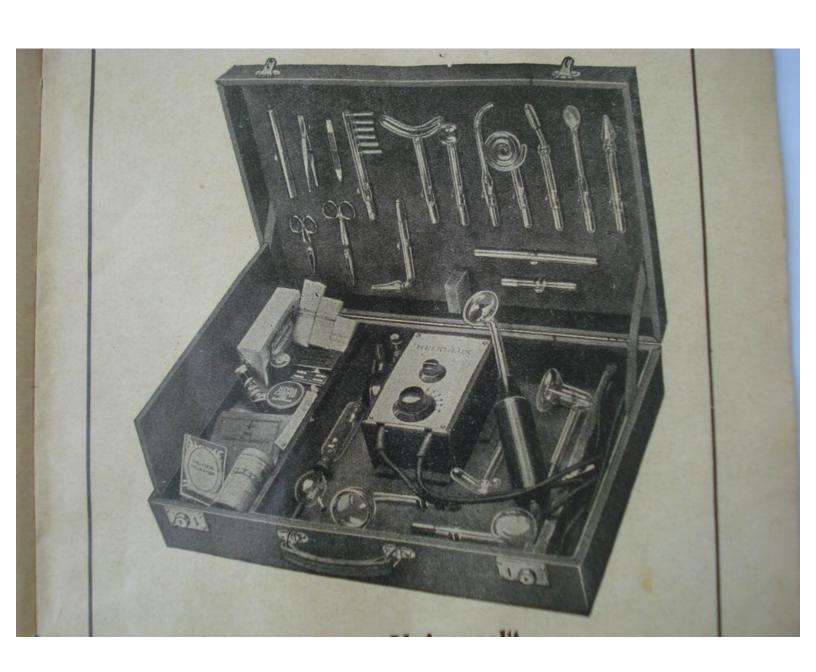
Diese Broschüre ist in leicht verständlicher Weise, unter Vermeidung schwieriger technischer und medizinischer Ausdrücke, geschrieben. Es ist daher jeder in der Lage, sich über das Wesen und die Wirkung der Hochfrequenz sowie über die Behandlung zu orientieren. Zu weiteren ausführlichen Rasschlägen und Aufklärungen stehen die Verkaufsstellen und Vertreter bereitwilligst zur Verfügung.

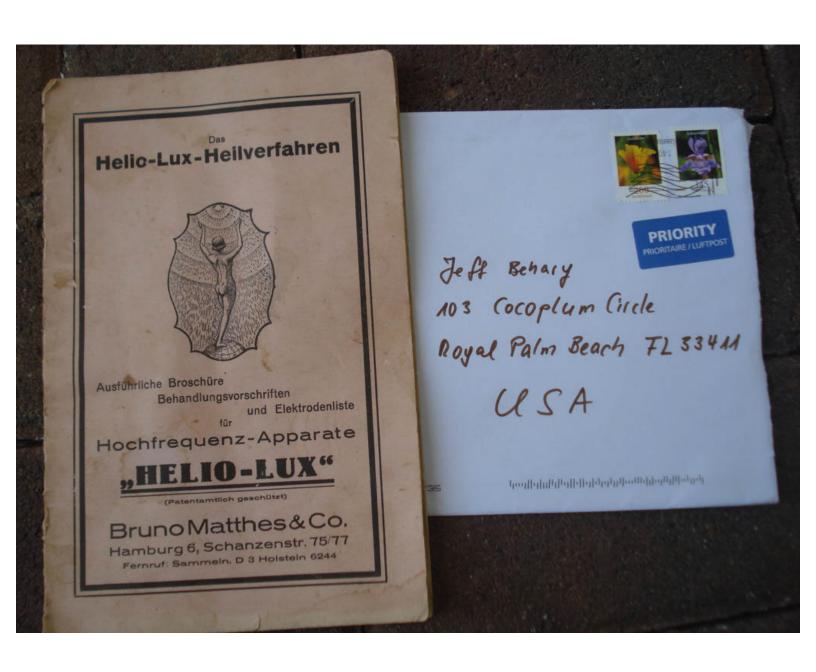
Bruno Matthes Vorsitzender der Wissenschaftlichen Gewillschaf für Heilstrahlen-Perschung a. V., Hamburg.

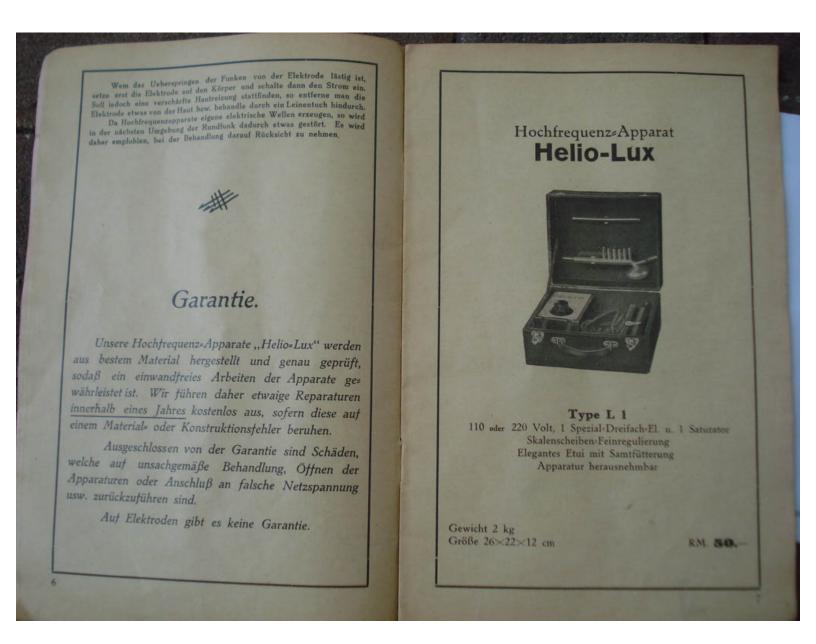












Neonstrahlung.

Handelt es sich darum, einen milden Strom von größter Intensität 211 Handelt es sich darum, eines handelt es sich darum, eines handelt es sich darum, eines handelt zu verwenden, besonders haben, so sind Neon- oder Rotstrahlenelektroden zu verwenden, besonders haben, so sind Neon- oder Robbinstein Elektroden sind mit dem hochwertigen "Neon-Gas" gefüllt, welches eine erhöhte elektrische Leistungsfähigkeit besitzt. Die Entladungen bei den Neonelektroden sind milde und angenehm zu ertragen, sodaß selbst der stärkste Strom angewandt und angenehm zu ertragen, sodat werden kann, ohne eine unangenehme Empfindung hervorzurufen. Ein weiterer Vorteil dieser Elektroden ist der, daß sie von nahezu unbegreezter Haltbarkeit sind, da das Edelgas keinerlei zersetzende Eigen. schaften hat. Der Preis beträgt etwa das doppelte der einfachen Elektroden

Mehrfach-Elektrode für Dauerbehandlung.

Durch eine anschnallbare Mehrfach-Elektrode in Néon ist nach Dr. med. Treibmann (siehe auch Artikel Seite 27) eine Dauerbehandlung möglich. wodurch bei einigen Krankheiten sehr gute Erfolge erzielt wurden. Diese Elektrode wird besonders angewandt bei Herzleiden, Magen- und Darmkrankheiten, Rheuma und Hexenschuß, Kopfschmerzen u. a. m. Man kann während der Behandlung die ohne Bedenken mit Unterbrechungen 94-1 Stunde täglich ausgedehnt werden kann, schlafen, lesen oder kleine Arbeiten im Sitzen verrichten. Die Mehrfach-Elektrode läßt sich an jeder beliebigen Körperstelle anschnallen. Abbildung und Preis siehe Nr. 59 im Elektroden-Verzeichnis.

Die Zahnbehandlung.

Die Hochfrequenzbehandlung ist ein wichtiges und unentbehrliches Hilfsmittel des modernen Zahnarztes geworden. Das Anwendungsgebiet ist sehr vielseitig. Die bakterienzerstörende Wirkung wird benutzt zur Behandlung von Fisteln, Abszessen und Zahneiterungen. Ferner dient die behandlung zur Schmerzbeseitigung nach Operationen (Zahnziehen), bei Nervenschmerzen und nach Brückenarbeiten. Die Erzeugung einer starken Durchblutung (Hyperamie) sowie Durchwärmung, verbunden mit der intensiven Ozonisierung des Blutes sorgen für die Ausscheidung kranker und verbrauchter Stoffe und Vernichtung der Eitererreger. Es sind schnelle Erfolge bei Wurzelhautentzundung erzielt worden. Abszesse lassen sich einfach behandeln und schmerzlos öffnen. Zahnfleischwucherungen lassen sich durch die Fulguration (Kaustik) leicht beseitigen. Man kann mit den entsprechenden Elektroden einwandfreie Kataphoresen vornehmen, die Wurzelkanäle sterilisieren, eiternde Kanäle austrocknen, sowie die Zähne bleichen (H2O2). Die Diagnostik der Pulpa ist einfach und sicher, Außer einer raschen Heilung wird durch Massage des Zahnfleisches eine wesentliche Kräftigung erzielt, weshalb man besonders bei Zahnfleischlockerung [Alveolarpyorrhoe] erfolgreich behandelt.

Behandlungsvorschriften.

Behandlungsvorschriften.

Abszesse. Kreisiörmige Bewegung mit Elektrode Nr. 0 um die schmierzende Stelle, täglich 3 mal je 3 Minuten. Zum schnellen Oeffnen der Abszesse leichte Bestrahlung mit Nr. 10

Adernverkalkung (Arteriosklerose). Aufladen des Körpers durch den Saturator täglich 2mal. Jeden 2. Tag Bestrahlen des ganzen Körpers nach dem Herzen zu mit Elektrode Nr. 0 um der Nierengegend mit Nr. 2.

Altersschwäche. Aufladen des Körpers durch Saturator 2mal 10 Minuten täglich sowie Bestrahlung des Rückgrates mit Elektrode Nr. 6.

Angstzustände siehe Nervenleiden sowie Herzneurose.

Appetitlosigkeit. Aufladen des Körpers mit dem Saturator abends 10 Minuten sowie Bestrahlung des Unterleibes täglich 5 Minuten.

Asthma. a) Bronchialasthma: Kräftige Bestrahlung des Rückens und der Brust mit Elektrode Nr. 2 durch langsames Auf- und Abgleiten. Inhalation mit Nr. 60 sehr zu empfehlen. Siehe Ozoninhalation Seite 19
b) nervöses Asthma: Kreisförmige Bestrahlung der Herzegend mit Nr. 31 Zmal täglich 5 Minuten. Hierauf Bestrahlung von Brust und Rücken mit Nr. 0 5—10 Minuten.

Augenleiden: (Augenentzündung. Lidentzündung). Behandlung mit Elektrode Nr. 7. Augenschwäche (Kurzsichtigkeit, grüner Star, Neiz- und Bindabase.

Nr. 7.

Augenschwäche (Kurzsichtigkeit, grüner Star, Netz- und Bindehautentzündungen). Behandlung mit Nr. 8 oder 9 bei geschlossenen Augen mit schwachem Strom täglich 5 Minuten. Außerdem Bestrahlung der das Auge umgebenden Partien mit Elektrode Nr. 0 3—5 Minuten.

Ausschläge. Bestrahlung mit Elektrode Nr. 0 täglich 2mal 10 Minuten mit starkem Strom. Das Einreiben mit Jodtinktur vor der Behandlung ist sehr zu empfehlen.

Bartflechte. Bestrahlung mit Elektrode Nr. 0 3mal täglich 5 Minuten.
Bestrahlung mit der Wundbehandlungselektrode Nr. 48 besonders wirksam.
Bauchschmerzen. Bestrahlung mit Elektrode Nr. 2 mehrmals täglich 5—10 Minuten.

Bauchfellreizung. Leichte Bestrahlung des Unterleibes mit Elektrode 0 täglich 2mal 5 Minuten sowie indirekte Massage.

Basedowsche Krankbeit täglich 2mal 19 Minuten die Halsdrösen mit Elektrode Nr. 3 bestrahlen.

Belegte Zunge. Auflegen der Zungenelektrode Nr. 14 sirks 5 Minute sowie nachherige Bestrahlung der Magengegend mit Elektrode Nr. 11 oder Beklemmungszustände. Siehe Herzneurose.

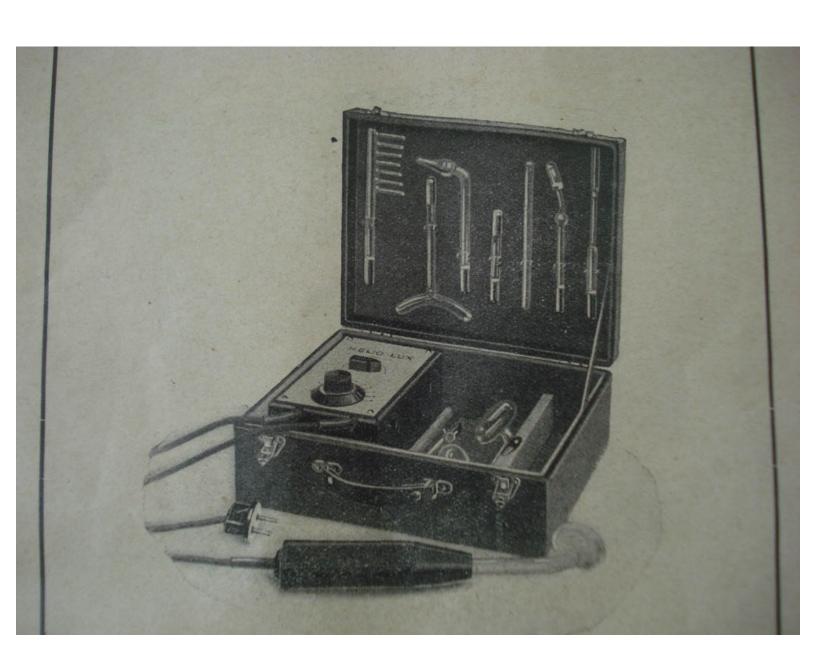
Blähhals. Siehe Kropt.

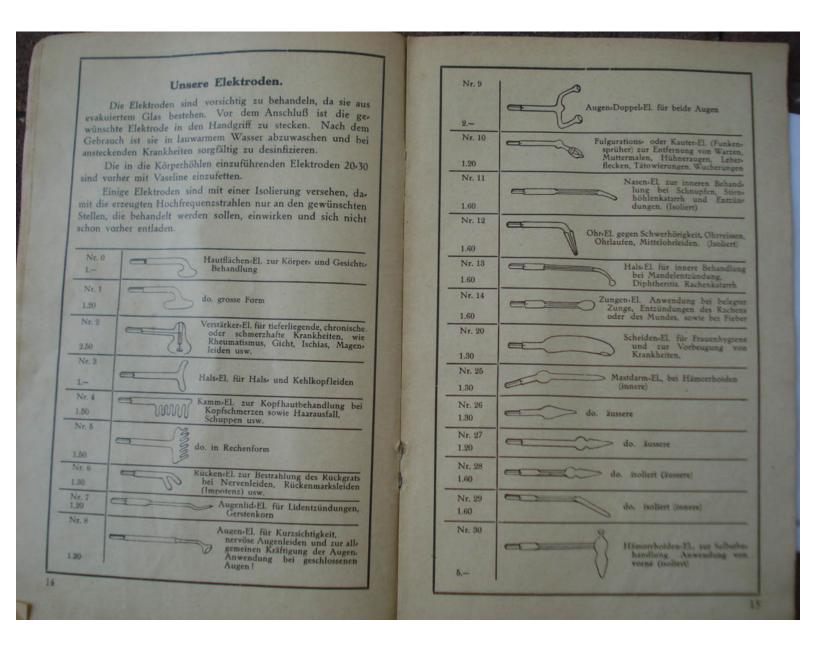
Blasenleiden und Blasenschwäche. Aeußere Bestrahlung der Blasen
gegend mit Elektrode Nr. 1 oder Nr. 2 2mal täglich 10 Minuten.

Blinddarmreizung. Bestrahlung der Blinddarmgegend mit Elektrode 0 2mal täglich 5 Minuten.

Bleichsucht und Blutarmut. Bestrahlung des ganzen Körpers m. Elektrode Nr. 0 oder Nr. 1. Ferner Aufladen durch den Saturator Rechel 10 Minuten.
Blutandrang (Blutaberfüllung, Blutatauung). Behandlung des Röcken mit Elektrode Nr. 6 bei mittlerem Strom dann folgt Bestrahlung mit Elektrode Nr. 2 des Unterleibes, der Oberschenkei und der Füße mit starken Strom. Behandlungsdauer 10 Minuten.
Bronchitis Kastias Bernahlungsdauer 10 Minuten.

Bronchttis, Kräftige Bestrahlung der Brust mit Elektrode Nr. 5-10 Minuten. Inhalation mit Elektrode Nr. 60 sehr en empfehren. Ozoninhalation Seite 18.) Wer schärferes Prickeln vertragen kann. 8 Brust und Rücken durch ein aufgelegtes Lementech.





Dr. M. E. Jedes Heim sollte sich einen derartigen Apparat anschaften nur Behandlung der gewöhnlichen üblichen Gebrechen, wie Rheumatismus, Kopfweh, Nervenleiden, Erkaltungen und Kinderkrankheiten usw. Als Schmerzbeseitigungs- und Vorbeugungsmittel sind Violettstrahlen unerreicht.

Dr. med. Gotthard, Oberarzt im Münchener Krankenhaus, erklärte: "Die Hochtrequeazströme sind sehr gute Hilfsmittel der physikalischen Therapien, leh habe damit bei schweren neuralgischen Störungen, z. B. einer Trigeminus-

Dr. med. Leo Harter, Frauenarzt und Chirurg in Offenburg i. B. Ich kann diese bequemen Apparate gar nicht mehr entbehren und käme mir ohne dieselben vor wie ein Vogel ohne Flügel, Fürchterliche Gallensteinkolikschmerzen verschwinden auf Flächenbestrahlung der Gallensteingegend in allen von mir beobachteten Fällen auf 8—12 Stunden. Ich möche noch Regel klägten, achon eine einmalige Behandlung genügte, um die Regel normal zu gestalten.

Sanitätsrat Dr. Hein in Ursberg in Schwaben hat mit Hochfrequenz-strömen in allen Fällen schöne Erfolge erzielt.

Prol. Dr. Hirsch, Charlté-Berlin (Therapeutisches Taschenbuch der Elektro- und Strahlentherapie, Berlin 1920). Die lokale Hochfrequenz-behandlung wirkt bei Neuralgien, rheumatischen Myalgien (Muskelrheumatismus), frischen Arthristiden (Gelenkentzündungen), schmerzlindernd. Viele-Applikation. Hamorrhoiden sind durch die gefäßkontrahierende Wirkung ach eigenen Beobachtungen mit sehr gutem Erfolg und behandeln. Vor jeder Hämorrhoidal-Operation sollte diese Lokalbehand ungefährlich, sehr aussichtsreich ist und den Patienten wenig belästigt.

San-Rat Dr. med. Hundertmark, Breddin (Mark) berichtet von zum Teil ganz verblüffenden Erfolgen bei Entzündungen, Ekzemen, Wunden, Herz-erkrankungen usw.

Dr. Monnel, Die Hochfrequenz in ihren mannigfachen Anwendungen betrachtet, stellt als Canzes ein unvergleichliches Heilverfahren zur allund Ernährer der Muskeln und Gehrnfunktionen dar, ist ein Aufbauer und Ernährer der Muskeln und des Blutes, ein Zerstörer aller ungesunden liche Körpersystem. Die erfrischende Wirkung des Hochfrequenzstromes Erschöpfungszuständen begründet.

Dr. C. Merray. Die Hochfrequenzströme erzeugen einen ausgleichenden lebenskräftigen Prozeß im menschlichen Körper und es ist für dieses Verfahren eine weiteste Volkstümlichkeit zu erwarten und zu wünschen.

Dr. med. P., Altons. Attest für Reichsbahnbeamten-Krankenversorgung Bezirksleitung Altons. Zur Behandlung seiner Nervosität habe ich Herrn H. W. den Gebrauch des elektrischen Hochfrequenz-Apparates "Heliolux emplohlen.

Dr. Rumpt. Die Allgemeinbehandlung des Körpers durch die Flachelektrode entlastet die inneren Organe, macht Lungen, Bronchien, Herz.,
gemeine Behandlung Erfolge mit dieser Therapie durch lokale und allmittel nicht leicht zuwege bringen. Fast Jeder Kranke darf von dieser
Therapie Gutes erhoffen,

Dr. Emil Schmidt, Salzburg, schreibt: Was nun die Fälle betrifft, welche sich mit Hochfrequenz zu behandeln Gelegenheit hatte, erwähne ich beweil ihre Heilung resp. Besserung nur mit dieser Behandlungsmethode Zwei Fälle von Lumbago waren bereits nach der zweiten resp. dritten Behandlung stollkommen schmerzfrei.

Ein Fall von Lähmung der einen Körperhälfte nach Schlagfluß, welcher die Behandlung setzte erst einige Wochen nach dem apoplektischen schönsten Erfolge zeitigte die oberen sowie auch die unteren Gliedmaßen schönsten Erfolge zeitigte die oberen sowie auch die unteren Gliedmaßen viel besser gehen und seinen Arm wieder fast normal gebrauchen.

Ein Fall von Asthma nach zwanzig Behandlungen des symathischen Nervengeflechtes wesentlich gebessert; die früher haufigen Anfalle haben zwei Fälle von Adnexentzündung und Schwellungen beider Ovarien nach einigen Behandlungen bedeutend gebessert resp. beschwerderfei. Mit der Fulgurationselektrode hatte ich Gelegenheit, ein kleines Angiom der Nase ohne Hinterlassung irgendeiner Narbe zu entfernen.

Dr. med. Schugg, St. Pölten. Ein Mann, seit 23 Jahren teilweise am linken Bein gelähmt und schon viel und oft mit allen Mitteln und Methoden behandelt, darunter s. Zt. in Berlin mit Vierzellenbad, erklärte nach mehr söchentlicher Behandlung mit Hochfrequenz, daß er sich viel besser fähle daß er noch nie seit 23 Jahren so gut gehen konnte, wie jetzt. Paramentrische Schmerzen, seit einem halben Jahre bestehend und besonders quäßend wirl unnuterbrochen vorhanden, durch zweimaliges Bestrahlen verschwunden. Neurasthenische Platzfurcht und nervöses Herzklopfen nach längerer Behandlung dem finden von Jahr zu Jahr immer mehr Eingang in die ärztliche Praxis. Und dies mit vollem Recht. So ist besonders quäßend wirkung bei Nerven- und Herzkrankheiten zu betonen und weise ich noch nach dies Schmerzstillende Wirkung bei Neurangen und auf die Fähigkeit, des Blutdruck herabzusetzen, hin.

Dr. med. Sch., Hamburg, Spezialarzt für Geschlechtsleiden. Bei der Behandlung der männlichen Impotenz

Allgemeines.

Die Elektrizität spielt in der Krankheitsbekämpfung eine hervorragende Rolle und wird bekanntlich in der verschiedenartigsten Weise angewandt, wie z. B. elektrische Bäder und Bestrahlungen, künstliche Höhensonne, Diathermie, Röntgenstrahlen, Faradisation (Elektrisieren), Galvanisation u. a. m.

Ein ganz besonderes Gebiet der Elektro-Medizin, welches sich in kurzer Zeit durch die überraschenden und wunderbaren Heilerfolge schnell verbreitet hat, sind die Hochfrequenzstrahlen. Dieses sind Wechselstrome von außerordentlich hoher Schwingungszahl (ca. 1 Million in der Sekunde), die als gesundheitsbringende Strahlen völlig schmerzlos und unschädlich durch den Körper geleitet werden können und diesem ungeheure Mengen zinischen Büchern und Zeitschriften über glänzende Resultate.

Nachstehende Ausführungen dienen zur Erklärung, in welcher vielseitigen Weise die Hochfrequenzbehandlung wirkt.

Zunächst sind es die hochgespannten Wechselströme, die den Körper durchfluten und in die feinsten Teile eindringen. Sie wirken auf das gesamte Nervensystem wohltuend und beruhigend und beeinflussen die Blutzirkulation und den Stoffwechsel in günstiger Weise. Hierdurch wird eine allgemeine Kräftigung des Körpers erzielt und die Lebenstätigkeit im gesamten Organismus gesteigert. Die dadurch erhöhte Widerstandsfähigkeit erleichtert die Krankheitsbekämpfung wesentlich. — Durch die geförderte Blutzirkulation wird eine Erschlaffung und ein Zerfall der lebensnotwendigen Gewebe und Zellen des Körpers verhindert. Die Behandlung ist daher die beste Verjüngungsmethode ohne Medikamente und ohne Operation. Von Prof. Dr. Schittenhelm ist eine sofortige Herabsetzung des Blutdruckes nachgewiesen worden, was besonders bei Arterienverkalkung eine große Rolle spielt. — Der geregelte Stoffwechsel regt wiederum den Appetit an und das Aussehen des Patienten bessert sich in kurzer Zeit. — Die gestärkte Nervenkraft sorgt für einen erquickenden Schlaf und läßt das Gefühl der Gesundung aufkommen. Bei der Bestrahlung der krankhaften Körperatellen tritt eine reichere Durchblutung (Hyperamie) dieser Gewebe ein, wobei gesundes Biut dem Krankheitsherd zugeführt wird und die Krankheitsstoffe ausgeschieden werden.

Wesentlich unterstützt wird dieser natürliche Heilvorgang durch das Ozon (aktiver Sauerstoff), das in großen Mengen durch die elektrischen Entladungen gebildet wird. Das Vorhandensein dieses Ozons ist am Geruch deutlich wahrzunehmen. Der ganze Raum wird ozonisiert und riecht wie die Luft nach einem Gewitter, oder in Tannenwäldern, oder an der See. Es ist wissenschaftlich festgestellt, daß das Ozon in reichem Maße eine hakterientötende Wirkung hat und dieses ist an Versuchen mit Ruhr-, Cholera-, Diphtherie- und sonstigen Bazillen sowie Eitererregern nachgewiesen. Da dieses Ozon von der Haut aufgenommen wird und ins Blut übergeht, wird der Sauerstoffgehalt des Blutes wesentlich erhöht, wodurch wiederum das Ausscheiden der verbrauchten und kranken Stoffe sowie die Vernichtung der Bakterien und Keime bewirkt wird (Blutreinigung). Gleichzeitig wird neues Blut gebildet.

Ein jeder, der Hochfrequenzstrahlen bereits angewandt hat, wird be-Ein jeder, der Hochfrequenzstrahlen bereits angewandt hat, wird bestätigen können, daß diese eine überraschend schmerzstillende Wirkung ausüben. Hierzu trägt auch die angenehme leichte Durchwärmung bei sowie das durch die elektrischen Funken ausgestrahlte violette Licht, dessen vorzügliche Heilwirkung ja bekannt ist. Außer der viellach soloritigen Schmerzbeseitigung tritt auch eine augenblickliche Juckreizmilderung ein. Es sollte daher z. B. unbedingt vor jeder Hämorrhoiden-Operation die Hochfrequenzbehandlung versucht werden, da diese sehr aussichtsteich ist.

Es ist noch besonders hervorzuheben, daß der Körper sowohl durch den Saturator allgemein behandelt werden kann, als auch durch die ver schieden geformten Glaselektroden eine örtlich begrenzte Bestrahlung ermöglicht wird. Hierin unterscheidet sich die Hochfrequenzbehandlung vorteilhaft von der mit Medikamenten aller Art. Während z. B. bei einem Entfettungsverfahren durch Medikamente der Körper insgesamt beeinflußt wird, läßt sich die Bestrahlung z. B. auf Leib, Hülten, Beine usw. begrenzen. Auch ist es bei fast sämtlichen sonstigen Heilmitteln der Fall, daß sie schädlich wirken, wenn sie im Uebermaß gebraucht werden. Hier bildet die Hochfrequenzbehandlung eine seltene Ausnahme, nämlich die, daß sie niemals schaden, sondern nur nützen kann. Trotzdem richte man sich nach den Behandlungsvorschriften, die vielfach erprobt sind. In vielen Fällen den Behandlungsvorschriften, die vielfach erprobt sind. In vielse führt eine milde und mäßige Anwendung besser zum Ziel als eine starke. Vor allen Dingen ist die regelmäßige Behandlung, die nach Möglichkeit schon bei den ersten Krankbeitszeichen einzusetren bat, einzuhalten.

Man unterscheidet folgende Hauptgruppen der Heholuxbehandlung: Oberflächenbehandlung. Bestrahlung mit verschiedenen Glaseiek-troden, die den zu behandelnden Körperteilen entsprechend geformt sind. Diese Behandlung kommt besonders bei allen Schmerzzuständen in Frage. wie Rheumatismus, Gicht, Ischias, Kopfschmerz usw., wie auch zur Haarund Schönheitspliege (Erzielung eines reinen und gesunden Teints, Brust-

entwicklung usw.).

2. Innere Behandlung. Mit entsprechenden Elektroden kunn man Nasen-, Ohren-, Hals- und Rachenleiden sowie Hamorrheiden usw. beilen und auch Frauenhygiene betreiben, sowie vorbeugen.

3. Aufladen des Körpers mit Hochfrequenzstrahlen durch den Sahussber (Sättiger). Völlig unempfindlich! Zur Hebung des Allgemeinbelindens 4. Indirekte Massage durch Hillspersonen bei aufgeladenem Körper (wie 3). Hierdurch wird eine vereinigte Massage und Hochfrequenzwickung durch die Entladung erzielt.

5. Fulguration oder Kaltkanstik. Elektrische Zerstörung von Ceweben durch konzentriertes Strahlenbündel. Entlernung von Warren, Habes-augen, Leberflecken, Tätowierungen, Wucherungen. Bestrahlung zur Zen

- 6. Kataphoretische Behandlung (siehe Beschreibung Seite 19). 7. Zahnärztliche Behandlung (siehe Beschreibung Seite 20).
- 8. Ozon-Inhalation. Wirksamste Inhalation durch besonders konstruierte Elektrode (siehe Beschreibung Seite 19),
- 9. Wundbehandlung. Bestrahlung offener Wunden (offene Beine) usw. wandschanding Der Heilprozeß wird erheblich beschleunigt. Jede Eiterung und Verschlimmerung wird verhindert.
 - 10. Dauerbehandlung. Siehe unter Mehriachelektrode Seite 20.

Das Heliolux-Heilversahren ermöglicht es, moderne elektrische Hauskuren vorzunehmen, wobei selbstverständlich bei sehr schweren Leiden auch der Arzt zu Rate zu ziehen ist. Ein Heliolux-Apparat gehört in jeden Haushalt und eignet sich durch seine handliche elegante Aufmachung auch für die Reise und für Krankenbesuche. Durch die Heilung einer einzigen Krankheit macht er sich bereits bezahlt und ist der gesamten Familie ein unentbehrlicher Helfer und Gesundheitsregler durch das ganze Leben. Er ist auch ein glänzendes Vorbeugungsmittel zur Verhütung vieler Krankheiten, In der Frauenhygiene leistet er gute Dienste. Er ist von Nutzen während der Schwangerschaft, nach der Entbindung und besonders für das Kind. Geistig und körperlich Ueberanstrengte schöpfen aus der Lichtleitung vermittels unserer Helioluxapparate neue Lebensenergie. Aber auch Gesunde, die Wert auf vorbildliche Körperkultur legen und vor allem Sportsleute sollten den Apparat ständig benutzen. Es wird ausdrücklich darauf hingewiesen, daß die Heliolux-Hochfrequenzapparate eine neuzeitliche, wissenschaftlich erprobte elektro-medizinische Einrichtung sind und nicht mit veralteten Elektrisierapparaten verwechselt werden dürfen. Auch kann nicht dringend genug vor minderwertigen Nachahmungen gewarnt werden. - Da die Helioluxbehandlung in vielen Fällen sehr aussichtsreich ist und schon oft auch da geholfen hat, wo bereits alle anderen Heilmethoden vollkommen versagten, so kann auch bei alten Leiden eine solche regelmilig durchgeführte Behandlung nicht dringend genug angeraten werden.

Unsere Apparate.

Auf Grund langjähriger Erfahrung konstruiert, sind unsere Helioluxapparate in jeder Hinsicht vollkommen und erstklassig. Da dieselben völlig erdschlußfrei sind, ist eine Gefährdung oder Schädigung der Gesundheit ausgeschlossen.

Die Anwendung ist außerordentlich einfach. Weder medizinisch technische Kenntnisse sind erforderlich. Die Apparate sind stets betriebs-bereit ohne lange Vorbereitungen. Die Betriebskosten sind sehr gering und betragen weniger als bei einer gewöhnlichen Glübbire. Da die Apparate keinerlei Batterien enthalten, sondern an die Lichtleitung angeschlossen werden, sind sie unbegrenzt haltbar.

Um dem Zweck der Verwendung und auch dem Wunsche des einzelnen gerecht werden zu können, führen wir Apparate verschiedener Typen und Preislagen.

Die Innenausführung ist Präzisionsarbeit, sodaß wir für das gute Arbeiten der Apparatur die am Schlusse gegebene einjährige Garantie übernehmen können.

Gebrauchsanweisune:

Die Helioluxapparate konnen an jede vorhandene Lichtleitung (Steckdosen oder Lampenfassung) angeschlossen werden und sind für Gleich- und Wechselstrom verwendbar.

Nachdem man sich versichert hat, daß der Apparat für die vorhandene Spannung eingeschaltet ist (Pfeilrichtung), wird der Stecker in die Steck-dose oder Lampenfassung gesteckt. Dann ist die gewünschte Elektrode in den Handgriff einzuführen. Durch Rechtsdrehen der Skalenscheibe kann nun der Apparat auf beliebige Stärke eingestellt werden.

Das Ausschalten erfolgt durch Linksdrehen der Skalenscheibe auf @ Nach Gebrauch ist die Elektrode aus dem Handgriff zu entfernen und der Stecker aus der Leitung herauszunehmen.

Die Apparate sind vor Feuchtigkeit zu schützen. Weder der Apparat noch einer seiner Teile darf geölt werden. Er soll nicht ohne aufgesetzte Elektrode laufen und der Strom muß dann auch durch die Behandlung abgenommen werden. Obgleich, wie schon erwähnt, die Behandlung fo den Körper vollständig ungefährlich ist und niemals schaden kann so ist jedoch folgendes zu beachten: Bei der Behandlung vermeide mas starken Ableitern (wie Telephon usw.) in Berührung zu konnen De-Körper ist mit Elektrizität gesättigt, die sich einen Ausweg sucht und dans unangenehme, jedoch ungefährliche Empfindungen verursacht. Auch darf die Behandlung im Bade nicht vorgenommen werden. Nach Möglichkeit sind auch Metallgegenstände, wie Ketten, Korsettstangen, Haarsadeln, vor der Behandlung wegen der Stromleitung abzulegen. Jede Behandlung beginne man mit schwacher Einstellung und verstärke den Strom erst



Nr. 0 RM. 21.-

Der Ozon-Inhalator.

Dieser Apparat ist durch seine vielseitige Konstruktion von einer außerordentlichen Wirksamkeit: Es sind damit ganz überraschende Erfolge erzielt worden. Der Inhalator sollte bei allen Krankheiten der Atmungsorgane wie: Husten, Schnuplen, Heiserkeit, Katarrhe, Grippe, Kehlkopfund Rachenleiden, Lungenleiden, Asthma, Tuberkulose sowie Bronchial-

Es besteht kein Zweifel, daß Ozon (aktiver Sauerstoff) die Eigenschaft hat, keim- und bakterientötend zu wirken und eine bervorragende Reil-

Der Inhalator wird als Elektrode benutzt und in den Handgriff unseres Helioluxapparates eingeführt. Nach Einschalten des Stromes entsteht im Innern des Glasmantels das erwähnte Ozon in reichen Mengen, wird mittels eines Gummigebläses ausgepumpt und durch die Nase oder den Mund eingeatmet. Da das reine Ozon jedoch auf die Schleimhäute ätzend wirkt, so geatmet. Da das reme Ozon jedoch auf die Ochten mit einem lindernden und lösenden Mittel zu vermischen. Dieses geschieht in dem Glasaufsatz, welcher mit Watte gefault ist, die mit einem Inhalationsöl (Eukalyptus-, Menthol- oder Fichtennadelöi)

Bei der Behandlung wird die Elektrode mit der linken Hand um den Glasmantel angefaßt, während die rechte Hand in gleichmäßigen Zegen pumpt. Durch das Umfassen der Elektrode erzielt man als weitere Wirkung gleichzeitig mit der Inhalation eine Durchstrahlung des Körpers mit den Hochfrequenzströmen. Die Behandlung soll zu Beginn auf dur wenige Atemzüge (5-10) beschränkt und erst allmählich gesteigert werden.

Kataphoretische Behandlung.

Unter der kataphoretischen Behandlung versteht man die Zuführung von allopathischen Medikamenten und biochemischen und hombopathischen Heilmitteln in den Körper auf elektro-chemischem Wege, wodurch die Diespritzung (Injektion) vermieden und auch das Einnehmen der Mittel ersetzt wird. Diese gelangen dadurch nicht erst durch den Magen, sondern direkt durch die Haut nach den erkrankten Stellen. Die anzuwendenden Mittel werden aufgelöst und die hiermit getränkte Watte in die Elektrode getas. Diese wird dann aufgesetzt und der Strom eingeschaftet. Fewergefahrliche Lösungen sind nicht anzuwenden. Auf diese Weise lassen soch gichtische Leiden durch die Verwendung harnsäurelösender Medikamente". heilen. Zur Heilung des Kropfes (Blähhals) sowie Drüsenkrankheiten nehme man zehnprozentige Jodkaliumlösung und bei Furunkeln und Hantentrümdungen das durch die Versuche Prof. Biers bekanntgewordene bambe-pathische Mittel: Sulfur jodatum D3. Sommersprossen und Muttermale werden mit Wasserstoffsuperoxyd (H3O3) gebleicht.

*) homöop. Silicea flüssig

18

Quarz-Elektrode;

5. 48jähriger Handwerksmeister, nach Grippe herzleidend, sodaß er alle
3 bis 4 Schrit stehenbleiben nuß. Zahlreiche Kuren mit Bädern, Digitalis, Dist usw. eriolijos. Ich versuchte den völlig aussichtslosen Kranken zur Heimkehr zu veranlassen, er drang aber in mich es hante von Hochfrequenz-Behandlung gehört —, einen wich es hatte von Hochfrequenz-Behandlung feiner Herzaktion, vollständig kompeniert, entlassen.
ther hat, nachdem alles versagt hatte, die Hoch frequenz lebensrettend gewirkt.
frequenz lebensrettend gewirkt.
frequenz lebensrettend gewirkt.
frequenz lebensrettend gewirkt.
6. 28jährige kaufmännische Angestellte, ebenfalls herzkrank. Nachdem Digitalis wirkungslos, 4 Monate mit allmählich größeren Pausen mit Hochfrequenz hander eine Frequenz hander der üblichen Herztherapie.
7. 27jährige Bureaungestellt. Nach dreimaligem akuten Gelenkrheumatismus herzkrank. Mageres Mädchen, 98 Pfund in Kleidern, kann keine Ireppe steigen. Nach Behandlung mit Herzbad, Digitalis, Diät usw. wieder so schwere Anfälle, daß ich Exitus in der Sprechstunde befürchtete. Deshalb Beginn mit Hochfrequenz-Behandlung mit Hochfrequenz-Behandlung Eklatanter Erfolg. In 4 Monaten Anfälle end. giltig beseitigt, Herzerweiterung zurückgegangen, keinerlei Schmerzen mehr. Gewicht steigt allmählich bis auf 137 Pfund. Wegen der anßergewöhnlichen Schwere des Falles Fortsetzung der Behandlung mit Pausen bis Juli 1926, hat dann im Seebad geschwommen, im Winter 1926/27 mehrfach ohne jede Beschwerde getanzt, Sommer 1927 wieder Seebad, der gute Zustand hält an. Hier wurde durch Hochfrequenz aprachen, bejeich seine Mehren getanzt, Sommer 1927 wieder Seebad, der gute Zustand hält an. Hier wurde durch Hochfrequenz aprachen, obgleich es wohl nur seltz auf der Megelitung der Durchblutung des Herzmuskels selbst war, die die Wiederherstellung brachte. Sommer 1928 macht sie Gebirgstoure

Einige ärztliche Gutachten.

Dr. med. B., Hamburg. Ihr Helioluxapparat ist mir in meiner Praxis unentbehrlich geworden.

Prof. Edw. D. Babitt sagt in seinen Studien über Licht und Farben:
Blau- und Violettlicht haben beruhigende und kräftigende Wirkung Deshalb
seben wir die trefflichen Erfolge der Hochfrequenzströme durch die gleichzeitige Erzeugung der blauen und violetten Strahlen der Elektrode noch
gesteigert. — Das Farblicht bringt seine Kräfte mit zur Geltung. Auch
das Auge emplängt hiermit; der Anblick dieser Farben erfreut und besänftigt.
Wir haben also das Dreigestirn: Elektrizität, Licht und Farbe, das dem
Körper dienstbar gemacht wird.

Wir haben also das Dreigstlim: Elektrizität, Licht und Farbe, das dem Körper dienstbar gemacht wird.

Geh-Rat Prof. Dr. L. Blumenreich, Berlin (aus "Zur Hochfrequenz- und Diathermiebehandlung bei gynäkologisch-geburtshilllichen Leiden". Archiv für Gynäkologis, Bd. 109/1918, Seite 2041, Hier lassen sich mitunter in der Tat erstaunliche Resultate erzielen. Ein an einem Patienten beobachteter glänzender Erfolg, eine sehr schwere Neuralgie des Plezus brachtalis, bei der durch mehrere Monate hindurch alle anderen üblichen Mittel vergeblich angewandt worden waren, wurde durch dreimalige Behandlung mit der Vacuumelektrode auf Monate zum Verschwinden gebracht, zwei spätere Rezidive gingen auf ein- resp. zweimalige Anwendung der Hochfrequenströme umgehend fort, jetzt ist ein Rückfall seit über zwei Jahren nicht wieder eingetreten, — brachte mich dazu, Fälle von Neuralgien im Gebiet der Beckennerven, Ischias bei der Frau, Ierner die so oft atferenden neuralgischen Beinschmerzen in der Schwangerschaft der Behandlung mit der Vacuumelektrode zu unterwerfen . . . Die Erfolge waren hier teilweise vorzügliche. Nur selten war die Besserung geringgradig oder fehlte ganzlich. Ich kann jedenfalls nur raten, in allen diesen Fällen einen Versuch mit der völlig unschädlichen Hochfrequenzbehandlung zu machen. In mehreren Fällen von sehr quülender Schwangerschaftsneuralgie, die allen Mitteln auch der Injektion von Kinger'scher Lösung getrotzt hatte, gelang en, die Besschwerden in drei bis acht Sitzungen mit der Vacuumelektrode mehreren bei Fissura am, habe ich die Vacuumelektrode mehreren. Behandlung zu machen in mehreren besteitigen. Auch bei Hämorrhoidenschmerzen, ferner bei Fissura am, habe ich die Vacuumelektrode mehreren der Benernen Blutdruck der beseitigen. Auch bei Hämorrhoidenschmerzen, ferner bei Fissura am, habe ich die Vacuumelektrode mehreren Behandlung zu machen. In mehreren besteitigen. Auch bei Hämorrhoidenschmerzen, ferner bei Fissura am, habe ich die Vacuumelektrode mehreren Behandlung zu machen. In mehreren besteitig

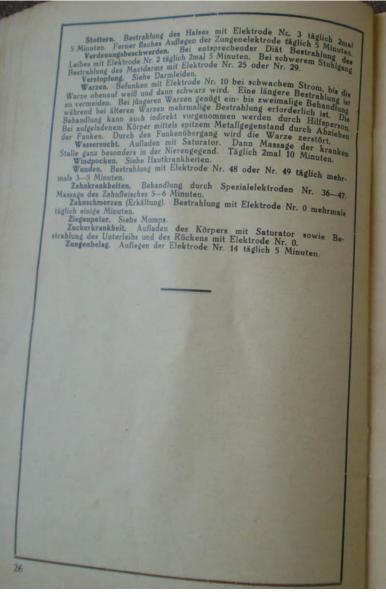
ich die Vacuumelektrode mehrlach mit gutem Erfolg angewandt.

Dr. Burwinkel, Bad Nauheim. Beherrscht abnormer Blutdruck das Krankheitsbild, so ist die Anwendung dieser völlig unschädlichen Methode umsomehr begründet, als die ganze neurasthenische Komponente ghrang beeinflußt wird. Die Patienten fühlen sich meist ganz beschwerdelrei. Schla und Allgemeinbefinden bessern sich, die Atmung wird leichter und heiter Kopischmerz und Reizzustände werden geringer. Und so sind die Hochfrequenzströme wegen ihrer angenehmen beruhigenden Wirkung als branch bare Unterstützungs- und Ergänzungsmittel anzusehen, die eine oft monate lang anhaltende Besserung der subjektiven Beschwerden herbeitähren. De Elsner.) Wir sahen jedenfalls bei leichten und schweren Hernantällen, be fettiger Entartung des Herrens und Angina pectoris die Herrelektrode der Wunder wirken. So stehen wir denn vor einer neuen Therapse, dere Ausbau der leidenden Menschheit großen Segen bringen, Miliowen vor Kranken von ihren Leiden befreien, anderen Millionen ihre Leiden se leichtern, weiteren Millionen neue Lebenskräfte zufähren wird das Muskel- und Nervensystem mit frischen Triebkräften ertällt.

Dr. med. Busch lobt die Hochfrequenzbehandlung bei hoben Statelweke, der schon nach 10-15 Minuten berabgeht. Die Wirkung halt langer, mand-mal sogar dauernd an.

Prof. N. Eberhardt. Ich habe meine persönliche Mersons en schiedenen Malen dargelegt. Dieselbe hasiert auf einer spesiellen 15 Mars. Praxis, in welcher ich täglich die Hochfrequenz mit Erfolg anwasste Quelle der Neubelehung unserer Körperwerkstätte und Apparates sind die Violettstrahlen der Hochfrequensbehandung





Ergebnisse der Hochfrequenzbehandlung.

Dr. E. Treibmann, Facharzt für innere Krankheiten in Leipzig, (Deutsche medizinische Wochenschrift Nr. 51/1927) schreibt in einem ausführlichen Artikel u. a. wie folgt:

Die Ansichten über den therapeutischen Wer: der hochfrequenten Ströme, die mit den sogenannten "kleinen" Hochfrequenzapparaten appli-ziert werden, sind in der Arzteschaft recht verschieden und vielfach ablehnend.

Seit 17 Jahren beschäftige ich mich mit Hochfrequenz, anfangs nur in Form der Diathermie, einer heute sehr angesehenen und anerkannten Therapieform. Mich interessierten daher auch die zleinen Hochfrequenz-Apparate zu einpoliger Applikation mit Kondensator-Elektroden, und seit einer Reihe von Jahren sammle ich Erfahrungen auf diesem Gebiete.

Um Klarheit über den Wert einer therapeutischen Methode zu bekommen, darf man nur Fälle verwenden, in denez diese Therapie ausschließlich verwendet wurde. Ich stelle deshalb an die Spitze dieser Arbeit
7 Fälle, aus großem Material herausgegriffen, die sämtlich schon lange Zeit,
oft jahrelang, mit den verschiedensten Methoden erfolglos behandelt werden
waren und dann ausschließlich bei Hochfrequenz-Einfluß
der Heilung oder wesentlichen Besserung zugeführt

- 1. Neuralgie in Narbe einer schweren Kriegsverletzung, Arm im Schultergelenk unbeweglich, Muskeln ganz atrophisch, Stützschiene. Je zer Bewegungsversuch sehr schmerzhaft, Wegnahme des unbrauchbaren, lästigen Armes erwogen. Patient wünscht Beseitigung der Narbenneuralgien. Da dieses erfahrungsgemäß mit Hochfrequenzbehandlung gelingt (Laqueur, Mann), Beginn dieser Behandlung Schmerzen schwinden allmählich, Nach 1 Jahre bemerkt Patient, daß er den Arm etwas im Schultergelenk bewegen kann. Nach 15 Monaten Schiene weg. Nach 4 Jahren kann Arm selbständig bis zur Horizontalen gehoben, Hand an Hinterkopf gelegt werden. Muskelatrophie verschwunden, Narbe weich, die 3 cm hohe Wulstung eingeebeet. Linker Arm wieder für alle Leistungen bis zur Horizontalen gebrauchsfähig. Linker Arm brauchsfähig.
- 2. Mathematiklehrer, durch schwere Kriegsverletzung nicht mehr in der Lage, den Arm über die Horizontale zu heben, mußte daher seinen Beruf aufgeben. In etwa 3 Monaten war die Bewegungs-beschränkung unter Hochtrequenz-Behandlung beseitigt.
- 3. 33jähr. Kaufmannsgattin, kommt 1927 in Behandlung. Sie bricht unter krampfhaften "Magen"schmerzen jede Nacht, extreme Abmagerung 78 Pfund in Kleidern. Ist sehr tätig, macht da ierne große Erregungen durch. Täglich 1 Stunde Hochfrequenz. Gewicht Ende Juli 98. Anfang September 101 Pfund, sehr gutes Befinden. In die zem Falle hat die Hochfrequenz lebensrettend gewirkt, dem die Patientin war dem Tod durch Hunger und Schwäche sehr nabe.

 4. (Dieser Fall bezieht sich auf ein Frauenleiden, weshalb wir eine Prörterung hierüber fehlen lassen.) Dr. Treibmann beschließt diese Abhandlung mit dem Urteil Ein Zustand, der die Kranke seit 17 Jahren gequält hatte, und ebenso lange vergeblich mit seder derkbaren Methode behandelt war, konnte so durch Hechtrequestend gültig bezeitigt werden.

Brustentwicklung. Täglich 5-8 Minuten mit Elektrode Nr. 0 oder besser mit Elektrode Nr. 32 bei mittlerem Strom. Für die Bestrahlung der Brustwarzen is auch Elektrode Nr. 8 geeignet.
Brustwarzen is auch Elektrode Nr. 32 bei mittlerem Strom 3mal täglich 5 Minuten.
Brustellentzündung (Schmerten an der Brust, Stillbeschwerden). Bestrahlung mit Elektrode Nr. 32 bei mittlerem Strom 3mal täglich 5 Minuten.
Brustellentzündung. Bestrahlung bei schwachem Strom mit Elektrode Nr. 0 ergibt Schmerzlinderung. Weitere Behandlung nur durch den Arzt.
Darmeiden (Darmkatarrh. Darmgeschwüre). Bestrahlung des Leibes mit Elektrode Nr. 2 täglich 2mal 10 Minuten.
Diabetes. Siebe Zuckerkrankbeit.
Diphtheritis. Innere Behandlung des Halses mit Elektrode Nr. 13 bei schwachem Strom mehrmals täglich 2 Minuten und der Außenseite des Halses mit Elektrode Nr. 3 bei mittlerem Strom 2mal 5-8 Minuten täglich.
Drüsenkrankheiten. Siebe Kropf und Skrofulose.
Durchall. Bestrahlung des Unterleibes, der Lebergegend und des Rückgrats mit Elektrode Nr. 0 oder Nr. 2.
Englische Krankbeit (Rachtitis). Bestrahlung des Rückgrats mit Elektrode Nr. 6 sowie Aufladen des Körpers mit dem Saturator Imal täglich 10 Minuten.

trode Nr. 6 zowie Aumana in der Massage des ganzen Körpers täglich 10 Minuten.
Epilepsie (Fallsucht). Indirekte Massage des ganzen Körpers täglich 2mal 5 Minuten.
Fettlebigkeit. Neben entsprechender Diät, Behandlung durch indirekte Massage und Bestrahlung des Herzens mit Elektrode Nr. 31 täglich 2mal 5 Minuten und der Nierengegend mit Nr. 2.
Fieber. Aufladen des Körpers mit dem Saturator. Hierauf Elektrode Nr. 14 zirka 10 Minuten mit mittlerem Strom auf die Zunge legen.
Frostbeulen und erfrorene Glieder. Nach vorherigem Baden in lauwarmen Satzwasser. Bestrahlung mit Elektrode Nr. 0 bei mittlerem Strom. Besteht Empfindlichkeit, Strom abschwächen: täglich 3mal 5 Minuten.
Furunkel. Siehe Abszesse.

Fußpflege. Schwielenbildung beseitigt man mit Elektrode Nr. 0.

Fußpflege. Schwielenbildung beseitigt man mit Elektrode Nr. 0.
Fußkrampl. 2mal täglich 8—10 Minuten mit Elektrode Nr. 0 oder
Nr. 2 mit starkem Strom.
Gallenleiden. Bestrahlung der schmerzenden Gegend mit Elektrode
Nr. 0 oder Nr. 2 Imal täglich 10 Minuten. Aufladen des Körpers mit
Gefähllosigkeit der Haut. Bestrahlung der betreffenden Stelle mit
einige Minuten.
Gehirnhautentzendand. Korfe

Gebirnhautentzändung. Kopimassage mit Elektrode Nr. 4 oder Nr. 5

Gelenkautentzandung.

2mal täglich 8 Minuten.
Gelenkentzändung (Gelenkneuralgie). Gelenkrheumatismus. Bestrahning der betreflenden Stelle in kreisförmiger Bewegung mit Elektrode

3. 10 Minuten. Bei den Fingergelenken kann man auch Elektrode Nr. 8

verwenden.

Gesichtsmassage (Schönheitspflege). Indirekte Massage empfehlenswert. Bei Falten und Furchen Bestrahlung mit Elektrode Nr. 0 täglich
Geschlechtsschwäche. a) bei Frauen: Bestrahlung des Unterleibes mit
b) Bei Mannern: Bestrahlung des Rückgrats mit Elektrode Nr. 6: täelich 2mal 10 Min.
b) Bei Mannern: Bestrahlung des Rückgrats mit Elektrode Nr. 6: täglich
den Masstdarm eindeführten Elektrode Nr. 6: täglich
Geschwäre. Siebe Abszesse.

Giebt. Bestrahlung der krankhaften Stellen mit Elektrode Nr. 0 oder
Siebt. Bestrahlung der krankhaften Stellen mit Elektrode Nr. 0 oder
Saturator und Bestrahlung der Nierengegend mit Nr. 2.

Grippe (Influenza). Bestrahlung von Brust, Rücken und Leib mit Elektrode Nr. 0 oder Nr. 1 täglich 2mal 5-10 Minuten. Bei Fieber Elek-trode Nr. 14 auf die Zunge legen. Heiße Packungen.

Haarkrankheiten [Haarausfall, Schuppen, Kopfhautkrätze usw.]. Behandlung mit Elektrode Nr. 4 oder Nr. 5 täglich 2mal je 5 Minuten bei Kopfmassage durch zweite Berührung der Kopfhaut. Außerdem indirekte Schuppen sind mit einem Stabkamm auszukämmen. Die Behandlung dari nicht sofort nach Waschung mit alkoholhaltigem Haarwasser vorgenommen werden. [Brandgelahr!] Die Schuppenbildung duffte bereits nach den daß das Ausfallen der Haare verhindert wird.

Hämorrhoiden, a) innere: Bestrahlung mit Elektrode Nr. 25 oder Nr. 29 täglich 10 Minuten.
b) äußere: Bestrahlung mit Elektrode Nr. 26, 27 oder Nr. 28 täglich 10 Minuten bei mittelstarkem Strom. Die Elektroden sind vor dem Einführen etwas einzufetten.

führen etwas einzuletten.

Hautkrankheiten (Flechten, Hautausschläge, Hautrose, Schuppensflechten, Ekzeme usw. außer Geschlechtskrankheiten). Bestrahlung der betreffenden Stelle mit Elektrode Nr. 0 oder Nr. 1. Wenn erträglich, de Elektrode mit einem Stück Leinen umwickeln, wodurch eine kräftigere Funkenbildung erzielt wird. Bestrahlung mehrmals täglich S-10 Minutes Bestrahlung mit Elektrode Nr. 48 oder Nr. 49 besonders zu empfehlen.

Herzleiden (Herzneurose, Herzversettung usw.). Bestrahlung der Herz-gegend in kreisförmiger Bewegung mit Elektrode Nr. 31 täglich 2mal je 5 Minuten.

Heuschnupfen. Innere Bestrahlung der Nase mit Elektrode Nr. 11 2mal täglich 3-5 Minuten sowie Stirn mit Elektrode Nr. 0 oder Nr. 2 Inhalation mit Elektrode Nr. 60 sehr zu empfehlen.

Hexenschuß. Behandlung der schmerzenden Stelle mit Elektrode Nr. 2 täglich 2mal 8-10 Minuten.

Hültschmerzen. Bestrahlung mit Elektrode Nr. 2 täglich 2mal

Höhneraugen. Befunken mit Elektrode Nr. 10 bei schwachem Strom, bis das Hühnerauge oben weiß wird. Die Verbrennung ist auch durch indirekte Funkenentnahme zu erzielen, indem eine zweite Person durch Nähern mit einem spitzen Gedenstand die Funken herauszieht. Hierbei ist der Körper des zu Behandelnden mit dem Saturator aufzuladen.

Hyperamie. Siehe Blutüberfüllung.

Impotenz. Siehe Geschlechtsschwäche (Mannesschwäche)

Influenza. Siehe Grippe.

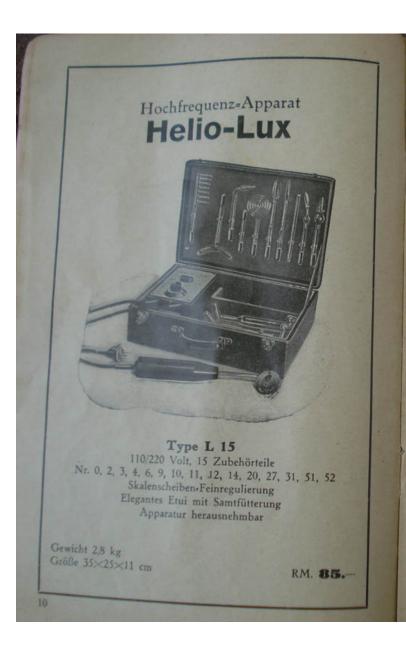
Ischias. Bestrahlung des Ischiasnervs über Hüfte, Oberschenkel und Beine mit Elektrode Nr. 2 mehrmals täglich 5 Minuten bei starkem Strom-langsam von oben nach unten gleitend.

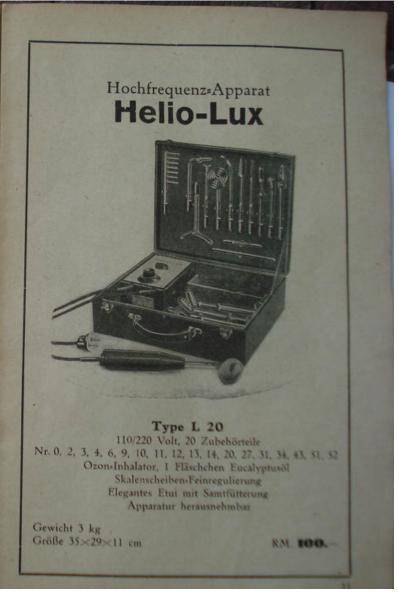
Indirekte Massage. Patient hält den Saturator fest in der Hand und ist alsdann der Strom stark einzuschalten. Die Hilfsperson bestreicht met beiden Händen ganz leicht den Körper. Dauer S.—10 Minuten. Derartige Koptmassage bei Kopfschmerzen sehr zu empfehlen.

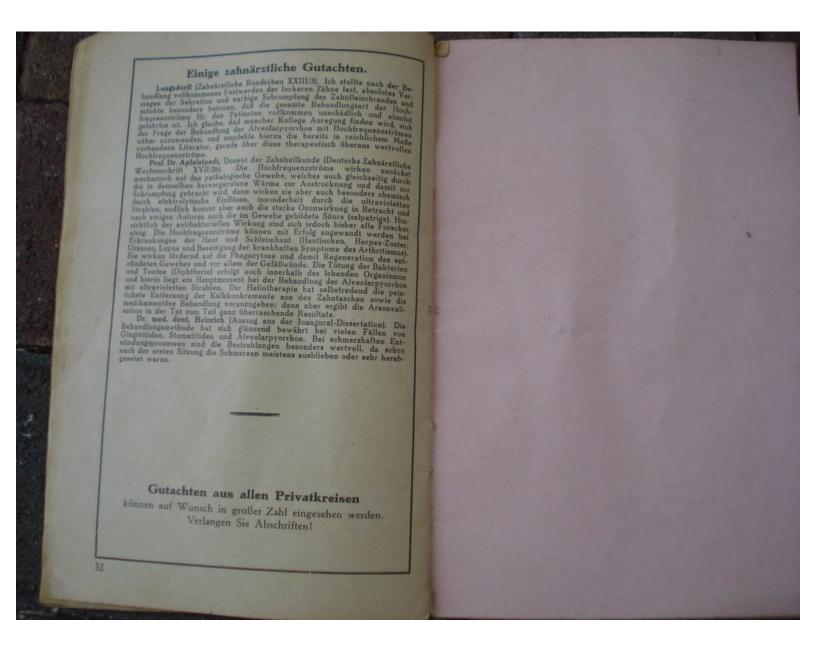
Karbunkel, Siehe Abszesse.

Katarrh der Brust. Brust und Rückenbestrahlung mit Elektrode Nr. 2 täglich 2mal 5 Minuten. Ozoninhalation mit Elektrode Nr. 80 bezonders wirksam.

Katarrh des Halses. Bestrahlung mit Elektrode Nr. 3 tkgitch 3mal je 5 Minuten. Inhalation mit Elektrode Nr. 60.







Katarrh der Nase. Bestrahlung der Nasenflügel und der umliegenden Partien mit Elektrode Nr. 0. Für innere Behandlung Elektrode Nr. 11, außer, dem Inhalation mit Nr. 60. Behandlungsdauer 5—10 Minuten. n Inhalation mit Nr. 60.

Keuchbusten. Siehe Behandlung wie Bronchialkatarrh und Asthma Kinderlähmung. Bestrahlung des Rückgrats mit Elektrode Nr. 6 bei schwachem Strom täglich 8-10 Minuten.

Kopfhautkrankheiten. Siehe Haarkrankheiten.

Kopischmerzen, Behandlung mit Elektrode Nr. 4 oder Nr. 5 mit mittlerem Strom sowie mit Elektrode Nr. 0 Stirn und Schläfen, Indirekte
Massage durch Hilfsperson sehr wirksam. Bestreichen von Kopf, Hals und
Nacken. Rübren die Kopischmerzen von Blutandrang nach dem Kopf oder
irgendeiner inneren Krankheit her, so ist ableitende Bestrahlung der Beina

Fane vorzunenmen. Krampfader. Bestrahlung täglich 2mal 10 Minuten mit Elektrode Nr. 0. Krämpfe. Bestrahlung von Brust und Herzgegend sowie Leib mit Elek-le Nr. 0. Ferner Aufladen durch Saturator.

Krätze. Bestrahlung mit Elektrode Nr. 0 durch Leinentuch täglich 2mal

Kreuzschmerzen, Bestrahlung der schmerzenden Stellen mit Elektrode Nr. 2 täglich 2mal 5-10 Minuten.

Kropf (Blähbals.) Bestrahlung mit Elektrode Nr. 0 oder Nr. 3 2mal tag-

Lähmungen. Bestrahlung der gelähmten Stellen mit Elektrode Nr. 2 täglich mehrmals 5—10 Minuten. Ebenfalls Bestrahlung des Rückgrats mit Elektrode Nr. 6.

Leberflecken. Befunken mit Elektrode Nr. 10 mit schwachem Strom. Leberkrankheiten. Bestrahlung der Lebergegend mit Elektrode Nr. 0 oder Nr. 2 täglich 10 Minuten.

oder Nr. 2 täglich 10 Minuten.

Lultröhrensentzündung. Einatmung mit Zungenelektrode Nr. 14 während 5-6 Minuten. Die Elektrode wird flach auf die Zunge gelegt. Einatmung durch den Mund, Ausatmung durch die Nase. Aeußere Behandlung des Halses mit Elektrode Nr. 3.

Lungeneleiden (Tuberkulose usw.). Bestrahlung von Brust und Rücken mit Elektrode Nr. 0 oder 1 täglich 3mal je 5 Minuten. Die Lungenspitzen werden mit Elektrode Nr. 2 bestrahlt zirka 2-3 Minuten. Außerdem Inhalation mit Elektrode Nr. 60 täglich 3mal kurze Zeit. Die Watte des Inhalators int Eukalyptus-, Menthol- oder Fichtennadelöl zu tränken. Indirekte Massage zur Förderung der Blutzirkulation kräftigt den Körper.

Magenleiden (Magenkrämpfe, Magengeschwüre.) Bestrahlung der Magengegend mit Elektrode Nr. 2 täglich 8-10 Minuten bei nüchternem Magen.

Mandelentzändung. Bestrahlung mit Elektrode Nr. 3 täglich 2mal 5 Minuten. Ferner Ozoninhalation mit Elektrode Nr. 60.

Masera, Man behandle den ganzen Körper mit Elektrode Nr. 0 2mal desinfizieren. Die Elektrode ist nach dem Gebrauch gut zu

Migrane. Siehe Kopischmerzen. Mittelobrentzundeng. Siehe Ohrenleiden.

Mitesser, Zuzächst Behandlung mit Elektrode Nr. 0, darauf die einzelnen Hautunreinigkeiten mit Elektrode Nr. 10 bei schwachem Strom einige Sekunden befunken.

Mamps (Ziegenpeter). Bestrahlung der geschwollenen Stelle mit Elek-trode Nr. 0 bei mäßigem Strom. Täglich 2mal 8-10 Minuten. Moskelschmerzen. Siehe Rheumatismus.

Muttermale. Bestrahlung mit Elektrode Nr. 0 durch Leinentuch mit kräftigem Strom. Ferner mäßiges Befunken mit Elektrode Nr. 10. Nasenbluten. Bestrahlung von Nacken und Schultern mit Elektrode Nasenbluten. B Nr. 0 6-8 Minuten.

Nasenleiden, Aeuflere Behandlung mit Elektrode Nr. 0. Innere Behandlung mit Elektrode Nr. 11 bei mittlerem Strom mehrmals täglich

Nervenleiden. Aufladen des Körpers durch Saturator 2mal täglich 10 Minuten. Gleichzeitig indirekte Massage zu empfehlen. Ferner Be-strahlung des ganzen Körpers mit Elektrode Nr. 0 oder Nr. 1.

Nervenschwäche, Bestrahlung des Rückgrats mit Elektrode Nr. 5 sowie indirekte Massage. Täglich 2mal 10 Minuten.
Neurasthenie. Siehe Nervenschwäche.

Neuralgie. Bestrahlung der schmerzenden Stellen mit Elektrode Nr. 2 täglich 2mal 5-10 Minuten.

Nierenentzündung. Behandlung der Nierengegend mit Elektrode Nr. 2. Täglich 2mal 3-10 Minuten.

Offene Beine. Außetzen der Wundelektrode Nr. 48 oder Nr. 49 bei mittlerem Strom. Täglich 2mal 3-5 Minuten. Ohrenleiden (Ohrlaufen, Ohrensausen, Mittelohrentzundung, Schwer-hörigkeit). Innere Behandlung mit Elektrode Nr. 12 bei schwachem Strom. Täglich 2mal 3-5 Minuten.

Quetschungen. Bestrahlen mit Elektrode Nr. 0 bei leicht massierender Bewegung. Täglich 2mal 10 Minuten 0 bei mildem Strom in

Rheumatismus. Bestrahlung der schmerzhaften Stelle mit Elektrode 2. Täglich 3mal je 10 Minuten bei starkem Strom.

Rose. Behandlung der kranken Stelle mit Elektrode Nr. 0 bei mildem Strom mehrmals täglich 3-5 Minuten.

Rotlauf. Täglich 2mal 5 Minuten mit Elektrode Nr. 0.

Rückenmarksleiden. Bestrahlung des Rückgrats mit Elektrode Nr. 8 täglich 10 Minuten.

Rückenschmerzen. Bestrahlung mit Elektrode Nr. 2 mehrmals täglich 5-10 Minuten bei kräftigem Strom.

Runzeln. Siehe Gesichtsmassage. Schlaffe Brüste. Behandlung mit Elektrode Nr. 0 in kreisförmiger Bewegung und Einbetten der Brust in die Elektrode Nr. 32 je 5 Minuten.

Schlaflosigkeit. Bestrahlung des ganzen Körpers mit Elektrode Nr. oder Nr. 1 sowie indirekte Massage. Abends 10 Minuten: Aufladen d Körpers durch Saturator.

Schönheitspflege. Man bestreicht Gesicht und Hals mit Elektrede Nr. 0 bei mäßigem Strom 5—10 Minuten täglich.

Schuppen. Siehe Haarkrankheiten.

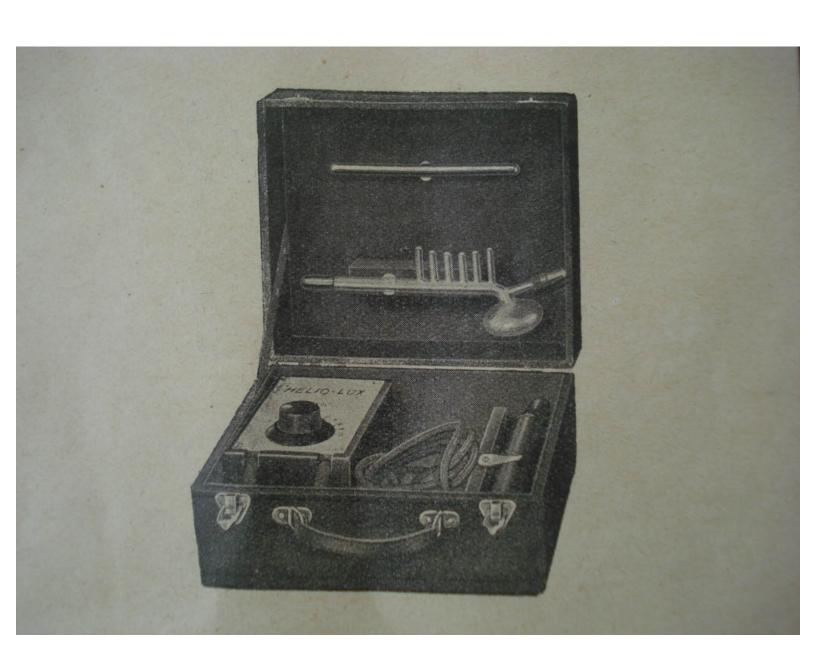
Schuppenflechte. Siehe Hautkrankheiten

Schweißsucht. Bestrahlung der schweißbildenden Stelle mit Elektrode Nr. 0 täglich 2mal 5 Minuten.

Schwerhörigkeit. Siehe Ohrenleiden.
Schwindelanfälle. Bestrahlung des ganzen Körpers mit Elektrode No. 3.
Kopfbestrahlung mit Elektrode Nr. 4 oder Nr. 5 sowie indirekte Kopf

Aoptiestrahlung mit Elektrode Nr. 4 oder Nr. 5 sowie manete Kopmassage,
Skrolulose. Aufladen des Körpers mit Saturator sowie Bestrahlung des
Halsdrüsen mit Nr. 3 und der Leistendrüsen mit Nr. 2 tagieh des
10 Minuten. Eine 2 tägige Unterbrechung der Behandlung ist m. enrichten
Stirnhöhlenkatarrh. Ianere Behandlung der Nase mit Elektrode Nr. 11
3-5 Minuten täglich. Bestrahlung der Stirn mit Elektrode Nr. 11 oder Nr. 2
täglich 5 Minuten.

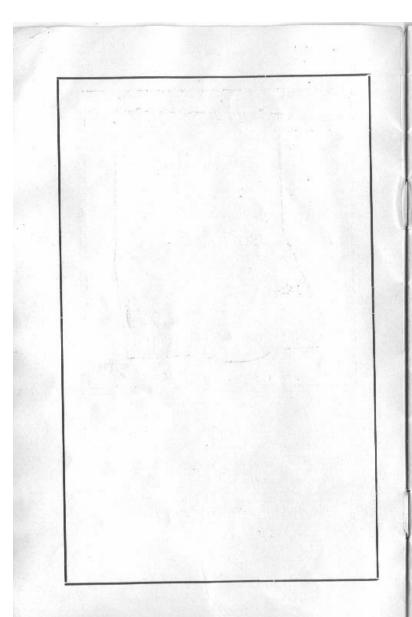








RADIOLUX RADIOSTAT RADIOFOR I *II * III



ALLGEMEINES

Hochfrequenzströme sind elektrische Wechselströme sehr hoher Polwechselzahl (ca. ein bis zwei Millionen in der Sekunde), welche durch das Fehlen jeder Nervenreizwirkung den heilenden Einfluß der Elektrizität zur höchsten Entfaltung bringen und eine ebenso wertvolle wie vielseitige, dabei völlig gefahrlose Behandlung des Körpers, in Sonderheit auch der Haut, mit Hochfrequenzströmen (sogenannte D'Arsonvalisations-Hochfrequenztherapie) gestatten. Mit Hilfe besonderer, den verschiedenen Verwendungszwecken entsprechenden Glaselektroden werden elektrische Funken- und Glimmlichtentladungen erzeugt, die bei ihrer Einwirkung in der Haut und im Gewebe eine schmerzstillende, juckreizlindernde und zugleich anregendeWirkung im Sinne einer besseren Durchblutung und Ernährung, einer Vermehrung des Sauerstoffgehaltes und einer Beschleunigung des Stoffwechsels entfalten. Endlich spielt die bei der Anwendung der Hochfrequenzströme auftretende Wärmewirkung (Diathermie) sowie die Ozonbildung eine wichtige Rolle.

Die zur bequemen Anwendung der Hochfrequenzströme erforderlichen handlichen Apparate stellen wir in allgemein bewährten Konstruktionen und den verschiedenen Zwecken und Anschlußmöglichkeiten entsprechend in den nachstehend beschriebenen Ausführungen her,

> die ohne Ausnahme so konstruiert sind, daß sie eine erhöhte Sicherheit gegen Erdschluß bieten.

Two Billion Dollars of Electr

Are You Getting Your Share of This Record-Breaking

STIMATES of this year's business, made by electrical men well posted in each line, and at the request of Electrical Merchandising, indicate that the American public will, during 1920, purchase electrical appliances, supplies, merchandise, etc., having a total retail value of over \$2,000,000,000. This total does not include sales of electrical energy by power and lighting companies, nor sales of generating, transmission, sub-station or pole-line equipment to power plants or public-service companies.



Little Willie Is Getting to Be the Biggest Member of the Electrical Family!

ical Merchandise Sales in 1920

Business, Estimated This Year to Reach \$18 per Capita?

N COMPILING these figures care has been taken to exclude commodities and volumes which do not pass through established retail or wholesale trade channels. Electrical merchandise which is ordinarily sold outside the electrical trade has been included where the nature of the merchandise is such that it could be more efficiently handled through electrical channels.

These estimates have purposely been made conservative, but the attainment of the figures given depends, in a certain measure, on the production attained by manufacturers in the face of material shortages. The soundness of the market is shown, however, by the fact that in practically every line listed the demand for goods exceeds the figures here shown.

160 0.T. (1.0.15) (1.0.15) (1.0.15) (1.0.15)			
227 (707 999) 1000	Retail Value	21 01 2021 1207 10 00000	Retail Value
Washing machines 700,000	\$100,000,000	Moving-picture machines, stage spot lights,	
Vacuum cleaners 800,000	40,000,000	etc	10,000,000
Portable lamps 3,000,000	50,000,000	Stereopticons (10,000)	500,000
Fans 1,000,000	25,000,000		
Irons 2,500,000	17,500,000	Electrotherapeutic and X-ray apparatus	10,000,000
Electric ranges 65,000	13,500,000		
Ironing machines 60,000	10,000,000	Automobile electrical supplies (7,000,000	
Percolators, hollowware 225,000	3,400,000	cars)	175,000,000
Radiators, air heaters 300,000		Storage batteries, replacements only	129,000,000
Heating pads, blankets 150,000	1,350,000	Rectifiers, rectifying apparatus	4,000,000
Dish washers 50,000	7,500,000	Auto valve grinders, portable drills, etc	1,550,000
Toasters 400,000	2,400,000	Air-compressor sets, motor-driven	2,000,000
Refrigerating machines 30,000			
Sewing machines, electric 100,000		Wireless-telegraph supplies, amateur and	
Utility, phonograph and sewing-machine		commercial	25,000,000
meters	5,000,000	Intercommunicating telephones, hospital	
Home-movie projectors 20,000		and factory calls	5,000,000
Violet-ray outfits 50,060		and anciety canal	0,000,000
Vibrators 50,000		Farm-lighting plants (100,000)	55,000,000
Curling irons, toilet appliances. 50,000		Farm-lighting substations (transformers,	
Photo-printing outfits 40,000		arresters, etc.)	3,000,000
Immersion-heaters, milk warmers 25,000		Farm apparatus, churns, cutters, milkers,	5,000,000
Hot plates, etc 20,000		etc.	5,000,000
Hair driers, etc 10,000		Pole-line material, farms, farm-lines	2,000,000
Miscellaneous heating appliances 300,000		Electric pumping outfits	7,000,000
Fixtures, shades, reflectors	245,000,000	Electric bambing carries	1,000,000
Ozonatora	100,000	Factory industrial electric trucks (5,000)	
Electric clocks	100,000	not incl. street trucks	11,250,000
Electric pianos, organs, etc	5,000,000	not met sereet trucks	11,000,000
Hair-cutters, clippers	200,000	Motors, 100 hp. and under (not incl. frac-	
Flashlights and renewal batteries	20,000,000	tional-hp. units)	100,000,000
Electric toys, Xmas-tree outfits, etc	7,000,000	Control app., starters, rheostats, for above	25,000,000
Electric toys, Allias-tive dutito, etc	1,000,000	Control app., starters, meastata, for above	20,000,000
Supplies		Contracting sales, labor charges	206,000,000
Wire, lamp cord, etc	\$140,000,000	Repair and maintenance	45,000,000
Wiring devices, switches, sockets, plugs	85,000,000		
Conduit, rigid, flexible, surface, and fittings		Electrical books, magazines	1,500,000
Marine electrical fittings	5,000,000	_	
Porcelain, knobs, tubes, cleats	15,000,000	Total\$2,0	007 165 000
Pole-line material and hardware (for indus-		Total	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
trial plants only)	8,000,000	Y 2	
Incandescent lamps, standard size	105,000,000	Two billions of electrical merchandise	sales, divided
Miniature lamps, auto, candelabra, flash-		among the population of the United State	110,000,000
light	48,000,000	people-indicates sales of about \$18 per	capita. (In
Dry batteries (75,000,000 cells)		California, you know, they are now selling	g \$40 to \$50
Fuses, plug, cartridge, renewable, auto		per capita!-so Bob Sibley, of the Journal	of Electricity.
Bells, push buttons, annunciators		tells us!)	
Bell-ringing transformers, etc		But even \$18 per capita, means \$180,0	00 total elec-
Radium luminous locaters		trical-merchandise sales in a town of 10,000	or \$1,800,000
	400000		et your quota

DER "RADIOLUX"

Der "RADIOLUX" ist ein kleiner handlicher, leicht mitzuführender Apparat zur Erzeugung und Anwendung hochfrequenter Ströme, der in einem zylindrischen, gleichzeitig als Handgriff dienenden Gehäuse (Hartgummikörper) alle Teile enthält, die sich auch in



großen Diathermie- und Hochfrequenzapparaten befinden. Die den verschiedenen Zwecken dienenden Glaselektroden zur Erzeugung der Glimmlicht- und Funkenentladungen werden direkt mit dem Apparat in Verbindung gebracht und sind durch einen einfachen Handgriff auswechselbar. Die Stärke der Entladungen ist durch eine Stellschraube in weiten Grenzen regulierbar. Da der Anschluß an jede Lichtleitung (Gleich- oder Wechselstrom) mittelst Anschlußkabel und Stecker erfolgen kann, so genügt bei Bestellung die Angabe der zur Verfügung stehenden Spannung. Der Apparat wird in elegantem

Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.

Etui und mit 4 dazugehörigen Elektroden geliefert. Das Kabel zum Handgriff führt keine Hoehspannung, wodurch die lästige Strahlung vermieden wird.

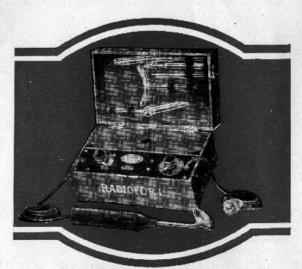
DER "RADIOSTAT"



ist ein Hochfrequenz-Apparat, der sich von dem "Radiolux" dadurch unterscheidet, daß Strahlspule, Primärspule und Kondensator getrennt voneinander untergebracht sind, und zwar befindet sich die Strahlspule in den sehr leichten Handgriff, Kondensator und Primärspule im Transportkasten des Apparates. Das Kabel zum Handgriff führt keine Hochspannung, wodurch die lästige Strahlung vermieden wird.

Der Radiostat kann auch auf Wunsch mit Umschaltung für 110 und 220 Volt geliefert werden mit der Bezeichnung Radiostat Universal.

Sowohl Stromstärke als auch Unterbrechungszahl sind für sich regulierbar; beide Stellschrauben hierzu sind bequem zu bedienen und oben im Apparat angebracht, wo sich auch die leicht leserliche Gebrauchsanweisung befindet. Der "Radiostat" ist erdschlußfrei, kann an jede Lichtleitung angeschlossen werden und ist für Gleich und Wechselstrom zu benutzen. Bei Bestellung ist nur die Höhe der Netzspannung (Volt) anzugeben, Der Apparat wird nur in elegantem Kasten mit 5 der gebräuchlichsten Elektroden geliefert.



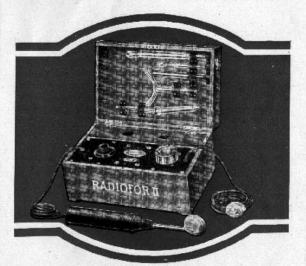
"RADIOFOR 1"

zum Auschluß an Gleichstrom

DER "RADIOFOR"

unterscheidet sich vom "Radiolux" und "Radiostat" durch seine kräftigere, einem längeren Gebrauche Rechnung tragende Konstruktion, durch seine Alle unscre Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.

äußere Ausführung und höhere Leistung und ist besonders für den Gebrauch in der ärztlichen und zahnärztlichen Praxis geeignet. Da die gedrängte Anordnung der im "Radiolux" untergebrachten Teile es ratsam erseheinen läßt, den Gebrauch ohne Unterbrechung nicht über etwa eine halbe Stunde auszudehnen um nicht Gefahr zu gehen, daß sich der Apparat eventl, erwärmen und dadurch geschädigt werden könnte – so sind beim "Radiofor" die wesentlichsten Apparatteile in einem besonderen, mehr Raum bietenden, elegant ausgeführten Holzkasten eingehaut, mit dem der nur noch der Aufnahme der Tesla-



"RADIOFOR II"

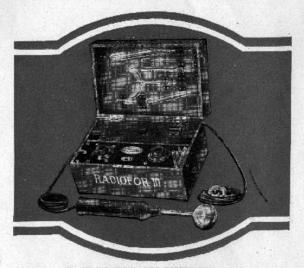
zum Anschluß an Wechselstrom

spule dienende Elektrodenhandgriff mittels eines biegsamen Kabels in Verbindung gebracht wird. Wir liefern den ebenfalls handlichen und leicht mitzuführenden Apparat, der mittelst Steckkontaktes an jede Liehtleitung angeschlossen werden kann, in den drei hier heschriebenen Ausführungen.

Die Ausführung des "Radiofor I" ist nur für Gleichstromanschluß einer bestimmten, bei Bestellung anzugebenden Spannung verwendbar.

Hervorzuheben ist bei diesem Typ besonders die getrennt durchführbare, äußerst feine Regulierfähigkeit der Applikationsstärke und der Unterbrechungszahl. Der Apparat wird, wenn niehts anderes vorgeschen, mit 6 dazugehörigen, in der ärztlichen Praxis um häufigsten verwendeten Elektroden geliefert, die bei Nichtgebrauch geschützt im Deckel unterzubringen sind. Das Kabel zum Hundgriff führt keine Hochspannung, wodurch die lästige Strahlung vermieden wird.

Die nur für Wechselstrom-Anschluß bestimmte Ausführung II ist mit der bewährten, hier nur kleiner dimensionierten Löschfunkenstrecke



"RADIOFOR III UNIVERSAL"

für Gleich- und Wechselstrom-Anschluß aller Spannungen von 110-250 Volt

ausgerüstet, die auch in unseren Diathermie-Apparaten zur Anwendung kommt. Der Apparat enthält dementsprechend einen kleinen stabilen Wechselstromtransformator, der in Verbindung mit der genannten Funkenstrecke eine besondere Gleichmäßigkeit in seiner Arbeit gewährleistet. Die Regulierung der Applikationsstärke in den erforderlichen Grenzen erfolgt durch Betätigung eines Drehknopfes. Der

Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos

Apparat wird, wenn nichts anderes vorgesehen, mit 6 in der ärztlichen Praxis am häufigsten verwendeten Elektroden geliefert, die im Deckel untergebracht sind. Der Apparat ermöglieful eine besonders feine Regulierung. Bei Bestellung ist die zur Verfügung stehende Spannung anzugeben. Das Kabel zum Handgriff führt keine Hochspannung, wodurch die lästige Strahlung vermieden wird.

Die Universal-Ausführung III des "Radiofor" kann nach Belieben an Gleich- oder Wechselstrom und an alle zwischen 110 und 250 Volt liegenden Netzspannungen augeschlossen werden, so daß sie sich besonders für die ärztliche Anwendung am Krankenbett, für die Mitnahme auf Reisen und für den Export eignet. Der Apparat ist mit einem dreiteiligen Stecker für die Umschaltung ausgerüstet, der es durch entsprechende Wahl der Kontakte ermöglicht, den Anschluß an 110-150 Volt oder über an 150-250 Volt vorzunehmen. Die Regulierung in den erforderlichen Grenzen erfolgt durch Betütigung eines Drehknoples. Die Lieferung erfolgt, wenn nichts anderes vorgesehen, mit 6 dazugehörigen, in der ärztlichen Praxis am häufigsten verwendeten Elektroden, die im Deckel des Apparates untergebracht sind. Das Kabel zum Handgriff führt keine Hochspunnung, wodurch die lästige Strahlung vermieden wird.

GEBRAUCHS-ANWEISUNG:

Die Für die Behandlung bestimmte Elektrode wied mit dem Metallieil in das im Jee Spitze des Hartgammikörpers hefindliche Luch eingeschoben, to daß der Hartgammikorper-den Handgriff der Elektrode hilder, die flegatiorung unf Null gestellt und der Apparat an die Lichtleitung augeschlossen-

a) Direkte Behandlung.

Die Elektrode wird nun entweder unter leichtem Druck über den zu behandelnden. vorber etwas gepuderten Kärperteil gasträchen, wordundt mach Einschultung eine intensive Wärmewirkung (Dinthermie) sowie direkte Applikation der Hochfrequeusströms med der violetten Strahlen erzielt neird, oder aber in kurzeen Abstand von der Haus gehalten. In letzterem Falle tritt eine behinfte Funkenbildung ein, deren günstige Heilwirkungen bei den verschiedensten Leiden allgemein bekannt und auch in der Lucratur zu finden sind.4)

b) Indirekte Behandlung.**)

Für diese kommt die Merallelektrode R. E. 22 in Betracht, welche ebenfalls wie Glas-

elektroden in den Hartgammikärper eingesettt wird. Der zu Behandelnde umfakt mit der nionn Hand den Elektrodenhandgriff, mit der underen fest die Elektrode (siehe Abb. 9 Seite 13), während der Austihende mit beiden Hünden die zu behandelnden Kürperstellen nuter geringem Deuck massiert oder in einesierember Bewegung über den Kürper leicht streicht.

Zu beuchten ist kierhei, daß eine Hand des Hebandehrden in sterem Koutakt mit der Korper des Patienten bleibt. Sowohl bei der direkten als auch bei der indirekten Behand-Lung ist es rassam, die Regulierschraube vor der Behandlung ganz nach links en dreinen, und erst wenn die Elektrode nut dem Korper in Verbindung gebriebt worden ist. Jangsam nach rechte zu dreinen. (Kr. ist semit gleichfalls ein bequemes Dosieren ermöglicht).

Nach erfolgter Behandlung wird die Regulierschraube ganz nuch I i.n.k.s gedreht und der Steckkontakt aus der Anschlußdose antfernt.

c) Ozon-Behandlung.

Für die Ozon-Behandlung wird der Ozon-Inhalator R. E. 21 u wie jede andere Elektrode mit dem Mendetell in dem Hertgemuni-Korper eingesorts und auf dem Tiech gelögt; die lieke Hand mufakt hierbei dem mittlesen Elektrolenteil (*, Fig. 7 Seite 12). Jesat schafter nam dem Serom ein, während die beiden Oliven des oberen Juhulstorcelle; in kurzur Entfernung

von den Nasenüffnungen gehalten werden. Die verbre Hand berktigt nun des an der Elektrode kelinelliche Gummigehlisse eureb langsame, rythusische Druckhewegungen. Das in großer Menge sich bildende Ozon wird langsam und in tiefen Zügen eingestmet-

Der obere Elektrodente-I ist mit Watte nosgefällt, welche als Luftlitter und zur Auf-nahme einiger Fropfen Inhalationsöl (Fichtennadel, Encalyptus) dient.

Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.





Neonresonance and contracts

Rote Strahlung

Neu!

Elektrode

(Beschreibung siehe Seite 24)

ANMERKUNG!

Die Isolation der Elektroden hat den Zweck, daß die erzengten Hochfrequenzströme nur an den Stellen, welche behandelt werden sollen, zur vollen Geltung kommen und sich nicht sehon an den Einführungsstellen vorhar antladen.

Unmittelbar nach Waschungen (Haarwaschungen) mit alkohol. Flüssigkeiten ist die Hochfrequenz-Behandlung wegen Fenersgefahr zu unterhozen.

Es ist darauf zu achten, daß beim Gebrauch der Körperhöhlen-Elektroden der Drehrebalter vor dem Einführen der Elektrode gauz nach links gedreht ist; erst nach dem Einfähren ist der Schalter langsam nach rechts zu drehen, bis in der Elektrode die Glimmlichtentladungen erfolgen.

Das Herausnehmen der Elektrode geschieht ehenfalls erst dann, wenn der Dechschalter ganz zurück nach links gedreht ist-

Das Reinigen sowie Desinfizieren der Elektroden wird mit lauwarmem Seifenwasser bezw. Lysol oder Alkohol vergenommen

Im Wosserbud darf die Hochfrequenz-Behundlung wegen der damit verbundenen Gefahr nicht ausgeübt werden.

Kleine Anderungen in der Konstruktion vorbehalten

⁴ San.-Rut. Albrecht. "Die Radiolusbeham lung"

⁵⁸⁾ Erfolgreiche Anwendung bei Vervosität. Stoffwechselkrankheiten und zur Besserung des Allgemeinhefindens.

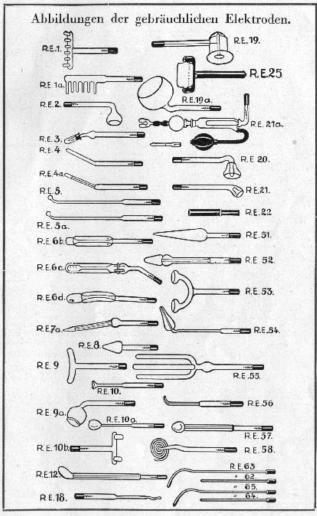
Elektroden zum "Radiolux" "Radiostat" und "Radiofor" D.R.P.

Eine wesentliche Verbesserung unserer patentierten Elektroden besteht durin, daß deren Lehensdauer durch Anbringung einer Spirale im Inneren der Elektrode um 2^{15} , bis 3 fach größer ist, was eine enorme Verbilligung der bisherigen Elektroden mit gleichem Preis bedeutet.

- R. E. 1. Kamm-Flektrode (quer) zur Kopfhaut und Husrbehundlung
- R. E. la. Kamm-Elektrode (lang)
- B. F. 2. Fischenelektrode zar Oberflichenbehandlung des Körpers und Gesichts (Kosmetik)
- H. F. 3, Kamer-Elektrode zur Emfernung von Warzen etc.
- R. E. 4, Nasen- und Ohren-Klektrode
- R. E. Ma. Nascus und Ohren-Elektrode (isoliert)
- R. E. 5. Bachen- u. Kehlkopf-Elektrode
- R. F. Sa. Rachen- und Kehlkopf-Elektrode (i-e)iert)
- R. E. 6b. Einfache Vagina-Elektrode (isoliert)
- B. K. du, Vagina-Ricktronis mit Spazial-Iaulation. (Am Bufersten Ende des Changarals betimten sich Öffnungen sum Amstebrann von Ozuna der Chamuntel itt sevels Reinigung von der Elektrode abnehmbars.)
- R. E. fal. Vagina- n. Prostata-Elektrode
- R. E. Ts. Rekinl-Elektrode (i-olivet)
- R. E. S. Spezial-Rektal-Elektrode (zuz Himorrheidulbehandlung)
- R. E. 9. Nackens u. Kehlkopf Elektrode
- R. F., 9a. Wundbehandlungs-Elektrode mit vertiefter Strabbenfläche
- R. E. 18. Augen Elektrode
- R. E. 10a. Zangen-Elektrode
- R. E. 10b. Rückgras-Elektrode
- R. F. 12, Prostuta Elektrode (isoliert)
- R. E. 18. Augenlid-Elektrode

- B. E. 19. Kondensster- (VerstReker) Flektrode (Diese Elektrode dient zur intensiven Behandlung tiefer liegender innerer K\u00f6rperteile)
- R. E. 19a. Brust-Elektrode
- R. K. 20. Kataphorecische Elektrode zur Behandlung größerer umschriebener krankh. Haustellen (Ferunkel etc.) mit Öffung zum Einlegen medikamentgestränkter Watte
- B. E. 21. Kataphoresische Elektrode (kleiners Ausführung)
- R. E. 21a. Ozon-Inhalator zur Behandlung der Luftwege
- R, E. 22. Mutall-Elektrodozur <u>indirekten</u> Behandlung
- R. E. 51. Konische-Mastdarm-Elektrode
- R. E. 32. Isolierte Mastdarm-Dilatator-Elektrode
- R. E. 53, Augenelektrode
- R. E. 54. Ohrenelekwode
- R. K. 55. Penis Elektrode
- R. E. 56 Katapharetische (Cornin) Elektrode
- R. E. 57. Isolierte Prostata-Elektrode
- R. E. 58. Spiralen-Elektrode
- R. E. 62. Kondensator-Elektrode für die vordere Harnsühre, unzerheichlich aus Hattgommi
- B. E. 63. Kondensator-Elektrode für die hintere Harnzöhre, unzerbrechlich aus Hartenmini
- R. E. 64, Metall-Elektrode für die vordere Harnröhre
- R. E. 60. Metall-Elektrode für die hintere Harmröhre

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Schönbeitspflege



2. Migräne, Kopfschmerzen



3. Neuralgie



1. Behandlung des Haarbodens



5. Kehlkopfbehandlung

Die vielseitigen Wirkungen und Anwendungsgebiete des,,RADIOLUX",,,RADIOSTAT"u.,,RADIOFOR"

a) Wirkungen der Hochfrequenzströme:

Vermehrte Blucfülle der flaut und des Gewebes. – Vermehrung des Sauerstoffgehaltes in Blut und Gewebe. – Beschleunigung des Stoffwechsels. – Bakterien und keimtötende Wirkung. – Schmerz- und juckreizlindernde Wirkung. – Wärmebildung und Ozonentwicklung.

b) Anwendungen:





6. Ohrenbehandlung



7. Erkrankungen der Luftwege



8. Ischias — Hexenschuß



9. Indirekte Behandlung bei Nervosität etc.



10. Gicht und Rheumatismus

Auszug aus der Schrift von Sanitätsrat Dr. med. M. Albrecht: "Die Radioluxbehandlung",

Übersichtstabelle

für die Benutzung der Hochfrequenz-Apparate RADIOLUX, RADIOSTAT, RADIOFOR I, II, III.

Nr.	Anwendungszweck	Elektrode	Behandlungsdauer
1	Acne (Gesichtspiekel)	R. E. 8	8-10 Min, tägl.
2	Asthmatische Beschw.	R. E. 21a	8-10
3	Augenbeschw., nervöse	R. E. 10	3-5 , ,
4	Darm-,	R. E. 2	
	Magenaffektionen	od, R. E. 19	5-10 , ,
5	Exzem, chronisches	R. E. 2 od.	
		R. E. 9a	
		R. E. 14	5-10 , ,,
6	Frostbeulen	R. E. 2	5-10 , 2-3× tägl
7	Furunkel	R. E. 2	5-10 " tägl.
8	. vorgeschrittene	R. E., 20	
		R. E. 21	
		R. E. 9a	5-10 ., 2-3× tägl.
9 Gich	Gichtische Beschwerden	R. E. 2	
		R. E. 19	8-10 2-3× tägl.
10	Haarausfall ,	R. E. 22	5-10 - 1-2× tägl
11	Halsentzündung,	R. E. 5a	3−5 _{se} tägl.
	Rachenentzündung	R. E. 2	8-10 " "
12	Hämorrhoiden	R. E. 8	5 Min. 2× tägl.
13	Hautkrankheiten (War- zen, Hühneraugen)	R. E. 3	5 Min. tägl. (siehe Warzen)
14	Herzstörungen, nervöse	R. E. 2	3-5-10 Min.
AR			jeden 2. Tag
15	Hör- und Sehbeschwerden	siehe Nr. 40	
16	Hüftweh (Ischias)	siehe Nr. 19	
17	Hühneraugen	siehe Nr. 13	
18	Juckende Hautkrank-	R. E. 2	1.0
	heiten	R. E. 19	10 Min, tägl.
19	Ischias	R. E. 2	
		R. E. 19	8—10 Min. 2× tägl.
Activities and the second seco	Katarrh, Mandel-Ent-	R. E. 9 od.	7 Min. 2× tägl.
	zündung	R. E. 5a	
		R. E. 10a	3 Min. tägl.

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Nr.	Anwendungszweck	Elektrode	Behandlungsdauer
21	Kopfschmerzen,	R. E. 2	5 8 Min. tägl.
Migräne	Migräne	R. E. 19 R. E. 10b	Magengegend Rückgrat
22	Lebererkrankungen	R. E. 2 R. E. 19	5-8 Min. 2× tägl.
23	Luftröhren-Katarrh	R. E. 19 R. E. 2	3 Min. 2× tägl.
24	Magen- u. Darm-Katarrh	siche Nr. 4	a min a magn
25	Mandelentzündungen	siehe Nr. 20	
26	Migrane	siehe Nr. 21	
27	Nasenbeschwerden	R. E. 11 (11a)	
		R. E. 4 (4a)	8-10 Min. öfters tägl
28	Nervosität, allgemeine	R. E. 22	8-10 Min. 2× tägl.
29	Nervöse Herzbeschwerden	R. F. 2	3-5-10 Min. jeden 2, Tag
30	Neuralgie	R. E. 2	8-10 Min. 2× tägl.
31	Neurasthenische	R. E. 10b	
Beschwerden	Beschwerden	R. E. 2	8 Min. mehrmals tägl
32	Ohrenschmerzen	R. E. 11 (11a)	
		R. E. 4 (4a)	8-10 Min. öfters tägl
33	Psoriasis	R. E. 2	
(Schuppenflechte	(Schuppenflechte)	R. E. 9a	
		od. R. E. 14	5-10 Min. tägl.
34	Rachenentzündung Halsentzündung	siehe Nr. 11	
35	Rheumatische Beschw.	R. E. 2	
100		R. E. 19	5-10 Min. 2× tägl.
36	Rheumatisch-muskul. Beschwerden	siehe Nr. 35	
37	Schönheitspflege	R. E. 1	5-8 Min. tägl.
38	Schuppen	R. E. 1 R. E. 1a	5-8 Min. tägl.
39	Schuppenflechten	siehe Nr. 33	o o min. tagi.
40	Schbeschwerden	R. E. 2	5-8 Min. tägl. Stien-
	Hörbeschwerden	12. 2	Schläfen ob. Wangengeg
41	Warzen, Hühneraugen	R. E. 3	1 Min. öfters tägl. mit Pausen von 5 Min

15

Über die therapeutische Verwendung von Hochfrequenzströmen.

Prof. I. Mann, Breslau, entwirft in Nr. 14 des Jahrganges 1925 der Deutschen Medizinischen Wochenschrift ein Interessantes Bild vom Anwendungsgebiet der Jokalen Hochfrequenzbehandlung, die sich auf alle diejenigen Aflektionen erstreckt, bei denen die Anwendung eines mehr oder wettiger kräftigen Hautreizes und gleichzeitig die Applikktion von Wärme ansezeigt ist. Wenn die Wärmewirkung hier im Gegensetz zur Disthermie auch eine untergeordnete Rolle spielt, so dürfte sie doch als ein beschäfigen! wirkendes und Hyperamie etzeugendes Agens nicht ganz zu unterschäften sein. Die hauptslichlichste Wirkung der lokalen Hochfrequenrbehandlung ist jedosh die eines gut abstalbaren Hautreizes.

Die Wirkung eines solchen Hautreizes kann hei schwacher Dosierung als eine ber
anderen Reizen, etwa mit dem faradischen Pinsel, der Fall ist. Von diesem Standqunkte
aus seind die Indikationen en stellen. In monchen Fällen kann man sich auch die sogenannte "ableitende" Wirkung eines solchen Hautreizes nutzbar machen. Es ist bekannt,
daß bei tiefer sitzenden Schmeuzen, etwa bei neuralgischer Affektion eines tiefen Nervenstammen, wie z. B. des Ischladikus, eine kräftige Hautreizung schmezzstillend wirkt. Die
klinatische Neigerung der Reisbarkeit in dem einen Gebiet wird gewissermaßen von dem
Reismustand des anderen Gebietes abgezogen, sie setzt also den durch den pathologischen
Prozeß bedingten Etregungszustand herab.

Das Anwendungsgebiet der lokalen Hochfrequensbehandlung wird mm von Prof. Mann wie folgt eingeteilt;

1.) Sie ist antuwenden als bernhigendes Mittel bei oberflächlicher Hautreizung, Juckreiz, Parästhesien, neuralgieformen Schmerzen, Hyperüsthesien der Haut usw., worbei so zu verfahren ist, daß man die Elektrode bet außetzt oder nur ganz wenig abhebt so daß eben nur eine Wärmewirkung oder höchstens eine ganz schwache sensible Reizung zu spüren ist.

2.) Bei neuralgischen oder ähnlichen Schmerzen, die von tiefer gelegeren Nerven zu Neuen Lichtadikus oder von den Ästen des Pleaus brachtalis ausgeben, kann eine stärkere Reitung mit Flukenbergang im Bereicht der erkrankten Nervenstiltume bezw. den augehörigen Hautpartier angewendet werden. Sollten jedoch die den neuralgischen Nerven entsprechenden Hautgebiere eine mit der Nadel leicht nachweitbare Hyperätthesie eigen, wie dies z. B. bäufüg bei Trigenmiussneurigie aufer hei tabischen Schnwenen der Fall ist, so ist eine erregende Behandlung kontratudiziert, weil män damit die Obersempfindlichkeit der Hautnervenendigungen und damit die Schmerzhaftigkeit noch steigern würde.

3.) Die Behandlung ist sehr zu empfehlen, bei allen vasomotorischen Neurosen (lokale Asphyxie, Erythromelalgie usw.), wobei man eine m\u00e4\u00e4lig starke Hautreizung anwenden kann. Sie wirkt h\u00e4\u00e4\u00e4lig regulierend auf die peripherische Zirkulation und damit auch subjektiv erleichternd. Fei der Migr\u00e4ne wirkt eine Behandlung in der anfallsfreien Zeit durch Bestreichen mit eicht anliegender Kondensatorelektrode ohne Funken\u00fcbergang oft g\u00fcnstig.

4.) Dem Einfluß auf die Zirkulation ist es wahracheinlich auch zuruschreiben, daß viele Kranke nach einer Hochfrequenzhehandlung, die im Bestreichen der Extremitäten und des Rückers usw. mit der Kondensatorelektrode mit leichtem Funkenübergung besteht, sich kräftiger und angereg: Hihlen. Man kann also eine derartige Behandlung bei marchertei. Schwächerustlinden, neurasthenischer und sonstiger Art, als wohl augezeigt bezeichnen.

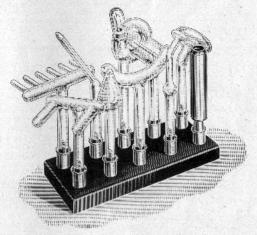
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5.) Ebraso ist es berechtigt, bei unkrionell bedingten mit allerlei Mißempfindungen verbunderen, vom den inneren Organen ausgebenden Störungen bei Herzneurosen, Magenentrosen usw, die den Organen ersberschenden Hautpartien mit millen Hochfrequensenömen mit der Kondensatorelektrode zu behandeln, ausgebend von einer ableistenden die Zirkultzten zegallerenden Wirkung: besonders bei Herzneurosen wirkt diese Rehandlung oft glüsstig.

Ther die Behandlung von Hautkrankheiten mit Hochfrequenzströmen hat der Verfasser keine persönliche Erfahrung, er weist jedoch darauf hin, daß der Jackeite günstig
beeinfluht werden könne und daß von manchen Autoren eine die Heilung von Ekzemen
und anseisen Hautafektionen fördernde Wirkung angegeben werde. Auch die Wirksankeit der Behandlung des Hautansfalls sei wegen der zirkulationshefördernden und die
periphtuischen Nerven auregenden Wirkung wahl denklur, iedoch wird der Erfolg
natürlich ganz von der Art des Grundleidens abhängen.
Schließlich werden auch verschiedene Schleinbautaffektionen als Indikationsgebiet

Schlieflich werden auch verschiedene Schleinbautaffektionen als Indikationsgebiet augeführt, besonders Hämorrhoiden, Fissura art. Scheidenkatzeh und dengleichen, Auch hier ist ein Einfluß durch Wirkung auf die Zirkulation wohl verziehnfelch. Und an letzere Stelle benutzt man den an spitzen Flektroden auftrelenden Punkenübergang, um oberflächliche Hautgeschwildte, Warzen und dergleichen zu zerstören.

Neu! Elektrodenständer!



Zur besseren Bereitbaltung der Elektroden. R. E. 100.

DIE INDIKATIONEN

zur Anwendung des "Radiolux", "Radiostat" und "Radiofor" in der Zaluheilkundz engeben sich aus den eigenartigem Wirkungen der Glimmlicht- und Funkenentladungen, sowie der Ozonbildung auf die zu behandelnden Stellen und seien im folgenden zusammengestellt:

> Bakterizide und antiseptische Wirkung Hyperzimisierung der Haut und des Gewebes Vermehrung des Sauerstoffgebalts im Blut und Gewebe Anästhssierende und analgesierende Wirkung Wärmebildung und Ozonentwicklung.

Die erfolgreiche Anwendung erstreckt sich daher auf Erkrankungen des Mundes, der Klefer und der Zähne (Alveolarpyorrhoe, Stomatitis, Trigeminus-Neuralgie naw.).

Literatur: Libotte: Die Alveolarpyozzhoe und ihre Behandlung. Anales dentaires Nr. 11–12, 1912. — Moore und Steffens: Bochfrequencistöne bei Behandlung der Alveolarpyorzhoe und entsündlichen Zuständen des Mundes, Dental Casmos Nr. 5, 1917. — Laugsdorf: Hochfrequencistöne als sicheres Mittel gegen Alveolarpyorinoe, Zahnärzti, Runcischau Nr. 3, 1914. — Zila: Die therapeutische Beeinflussung der Alveolarpyorchoe mittels D'Arsonvalisation. Oest-Ungar. Vierteljahrsschrift für Zahnbeilkunde, Heft 3, 1911.

EINIGE LITERATUR-AUSZÜGE

über Hochfrequenzbehandlung in der Zahnheilkunde

Langsdorf, Zalmarzi ("Zahnärztliche Rundschau", XXIII, 5):

Hierbel gehe ich von der Überzeugung aus, daß man dem Patient den Strom so hoch gespannt zufähren soll, wie er es zu vectragen in der Lage ist. Selbstverständlich fange ich mit der schwächsten Behandlung an und steigere erst ganz allmählich die Intensikk der elektrischen Entladungen. Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.

Zunächst bestreiche ich mit einer ganz spitzen Vaccumelektrode bei schwächster Einstellung des Apparates Obers und Unierkiefer und führe diese Elektrode möglichst in die zwerthofsichen Taschen higeln. Danach nehme ich beeitere Vacuumglaselektroden, deren größere Fläche gleichzeitig mehr zu bestrablen vermag. Die Entladung der Hochfrequenzströme steigere ich nun allmählich, bis der Patient ein stärkeres Empfinden der Srößen hat.

Nach einer Applikation von zirka 5-10 Minuten ist die Bestrahlung beendigt.

teh wiederholte diese Sitzungen nun drei, bis viermal in der Woche und konnte nach einer durchschuitlichen Behandlungsdauer von zieka 4 5 Wochen vollkommenes Festwerden der lockeren Zähne, absolutes Versiegen der Schreition und narbige Schrumpfung des Zahnfleischrandes feststellen und möchte hesonders betonen, daß die gesamte Behandlungsare der Hochfrequenzströme für den Patienten vollkommen unschädlich und absolut gefährtes ist, was ich wie gesagt, durch mein mehrjähriges Arbeiten mit diesen Serömen beställtet gefünden habe.

Strömen bestätigt gefunden habe.
Ich glaube, dieß hierderch mancher Kollege Anregung finden wird, sich der Frage
der Behandlung der Alveolarpyorthoe mit Hochfrequenzströmen näher zuzuwenden, meine
Angaben en prüfen und empfehle Fierzu die hereits im reichlichen Maße vorhandene
Literatur gerade über diese therapeutisch überaus wertvollen Hochfrequenzströme.

Apfelstandt, Dozent der Zahnheilkunde ("Deutsche Zahnärzt! Wochenschr.", XVII,26).

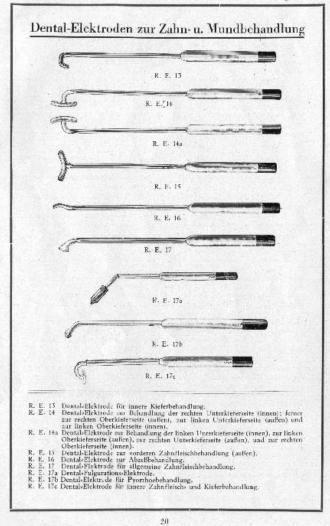
"Wie wirken nun die Hochfrequensströme? — Sie wirken zunäften mechanisch durch ihre Funkenentialungen (Funguardinom) zerstörend auf das pathologische Gewebe, welches auch gleichzeitig durch die in demselben hervorgerufene Wärme zur Austrocknung und damit zur Schrumpfung gebracht wurd; dann wirken sie aber auch besunders öbenisch durch elektrolytische Einflüsse, insonderheit durch die ultravioletten Strollen, wiche freilich nach heiser zur Wirkung gelangen würden bei der von mir benutzten Apparatur, wenn die Varanmeillektroden aus dem filt diese Strollen betwer durchlässigen Quarkerget. In der der Wirkung in Betracht und nach einigen Autoren auch die im Gewebe gebildete Säure (salpetrige Saure). Die anatomischen Veränderungen bestehen in einer kurzen Anaemie, welcher nach anfängen icher Schle mhautauflockerung und Sekretion die Austrocknung folgt. Nach den beiden ersten Bestrabhungen kann man in der Regel eine Erhöhung der Sentibilität der Gingiva beobschten, die aber sehr hald abflaut und einen Zerfall der Usuren im Gefolge hat. Eine Anaestheiserung habe ich diagegen im Gegonste zu anderen Autoren nicht beo-bachten können. Hitzsichtlich der authöhteriellen Wirkung sind sich jedoch häher alle Forscher einig; das Resultat meiner eigenen diesbezüglicher. Untersuchungen mit Staphyllakokken, Streptokokken, Meningokokken, den Diphteriepile etc. werde ich demnächst varöffentlichen.

Die Horldrequeneströme können mit Erfolg angewandt werden bei Erkrankung der Haut und Schleimbaut (Hautlucken, Herpes-Zoster, Csurren, Jupus und Beseitigung der krankhaften Symptome des Arthritismus). Sie wirken fördernd auf die Phagosytose und damit Regeneration des entründeten Gewebes und vor allem der Gefälwände. Die Tötung der Bakterien und Texine (Diphterie) erfolgt auch innerhalb des lebenden Organismus, und hierin fliegt ein Hauptmoment bei der Behandlung der Alvoolappvorchoe mit ultravioleten Stublen. Der Hellotherspie hat selbstredend die peinlichste Enternung der Kalkkonkremente aus den Zahntaschen sowie die medikamentöse Behandlung vorangugehen: dann aber ergibt die Arsonvalisation in der Tat zum Teil ganz überraschende

Heinrich, Dr. med. dent., prakt. Zuhnstat (Auszag aus der Inaugural-Dissertation).

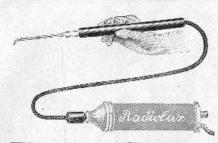
Die Behandlungsmethode hat sich glünzend bewährt bei sielen Füllen von Gingsvitiden, Stromatiden und Alveolarpyorrhoe. Bei schmezzhaften Entzündungsprozessen sind die Bestrahlungen besonders wertvoll, da schon nach der ersten Sitzung die Schmerzen melatens ausblieben oder sehr herabgesetat waren.

Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.



R. E. Dal R. E. To R.

Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.



Spezial-Handgriff

Disser Hundgriff wird lei der Zahnbehardlung meist in Verbindang mit allen Apparatén gebrancht Fer gestuttet eine leichte Handhabung, empfindlieber Elektreden, die er sehr klein und von gesingem Gewicht ist,



Spezial-Aufhänge-Vorrichtung

Diete Aufhänge-Vorrichtung ermöglieht cv. den "BADIOLUX" in jeder beliehigen Nietlung am Schwebstisch oder dergleichen anntheinigen und und unter Denutrung des "Spezial-Handgriffe" in n.h.e., hir id er et die Zahm- oder Mundbehandlung ausgeben zu klimme

Alle Apparate

Radiolux, Radiostat u. die 3 Radiofor

werden auch mit zahnärztlichen Elektroden geliefert.

Das Kabel zum Handgriff führt keine Hochspannung, wodurch die lästige Strahlung vermieden wird.



Diese Spirale

erhöht die Lebensdauer der Elektroden um das 2 bis 3 fache, was eine enorme Verbilligung bedeutet. Alle unsere Konstruktionen sind erdschlußfrei D. R. P. und daher gefahrlos.

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Verlangen Sie kostenlose Zusendung der sehr wichtigen Druckschrift von Ing. Eckert: "Die Gefahren des Erdschlusses bei der Anwendung von Hochfrequenzapparaten."

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NEONSTRAHLUNG

Im allgemeinen werden mit verdünnter Luft gefüllte Elektroden sendet. Für besondere Zweeke ist es vorteilhalt, Neon-Gas als erwendet. Füllung zu benutzen.

Noon ist eines der sogenannten Edelgase (Edelgase insofern, als das Gas mit keinem anderen Kürper ehemische Verbindungen einzugehen imstande ist) und in der Luft in ganz geringen Mengen enthalten (100 l Luft enthalten nur 15 eem dieses Gases).

Vor den übrigen Gasen zeichnet es sich aus durch seine große louisationsfähigkeit, d. h. es genügen schon geringe Spannungen, um

das in einer Glasröhre eingeschlossene Gas zum Leuchten zu bringen. Es erstrahlt dann in feurig rotem Licht. Die eben erwähnten Eigenschaften machen das Neon-Gas zur Verwendung als Füllung der Hochfrequenz-Elektroden außerordentlich geeignet.

- Durch die geringe Verwandtschaft, die es zu anderen Elementen hat, wird erreicht, daß die mit Neon-Gas gefüllten Hochfre-quenz-Elektroden die mit Luft gefüllten an Lebensdauer weit übertreffen, da chemische Änderungen in der Elektrode nicht statifischen k\u00e4angen. stattfinden können.
- 2. Die große Ionisationsfähigkeit des Gases und die dadurch bedingte gute Leitfähigkeit für den elektrischen Strom ist der Grund, daß Neon-Elektroden auch hei größerer Stromstärke weichere Entladungen liefern, als die luftgefüllten.
- 3 Das feurig rote Licht, das, wie allgemein auerkannt wird, ent-zündungshindernd wirkt, läßt die Neon-Elektroden auch für die Behandlung von Entzündungen geeignet erscheinen.

Das Charakteristikum der Neon-Radiolux-Elektroden besteht dem-Das Charakteristikum der Neon-Radholux-Elektroden besteht demnach darin, daß sie Ströme von großer Intensität in milder Formabgeben, wobei die rote Farbe ihre besondere therapeutische
Wirkung hat. Die Anwendung empfiehlt sieh daher überall dort, woempfindliche Stellen mit kräftigem Strom behandelt werden sollen und
wo-der Zweck der Behandlung die Herabsetzung oder Vermeidung
einer Entzündung ist. Die besonderen Eigenschaften der Neon-RadioluxElektruden haben zur Folge, daß sie in der Zuhnheißkunde mit Vorzug Elektroden haben zur Folge, daß sie in der Zahnheilkunde mit Vorzug Verwendung finden.

Wir halten die Neon-Radiolux-Elektroden in folgenden Ausführungen am Lager:

Neon R. E. 1

R. E. 2 R. E. 6b

R. E. 8 R. E. 9

R. E. 13-R. E. 17 R. E. 25 (Glas-Rollerelektrode)

Außerdem können alle anderen Elektroden dieses Kataloges mit Ausnahme von R. E. 3 und R. F. 21a mit Neon-Gas-Füllung hergestellt und auf besondere Bestellung geliefert werden.

ein sicheres Heizbisse

Das SANOTHERM-

Sicherheits-Heizkissen

hat folgende Vorzüge:

Vaen-Regler (Birka) D. R. P., Separatschalter, Separatsicherung D. R. P., doppelpoligen Ausschalter, Verwendungsmöglichkeit für alle Spannungen (110—220 Volt) ohne Umschaltung und feste Einstellbarkeit auf 3 konstante Temperaturstufen.

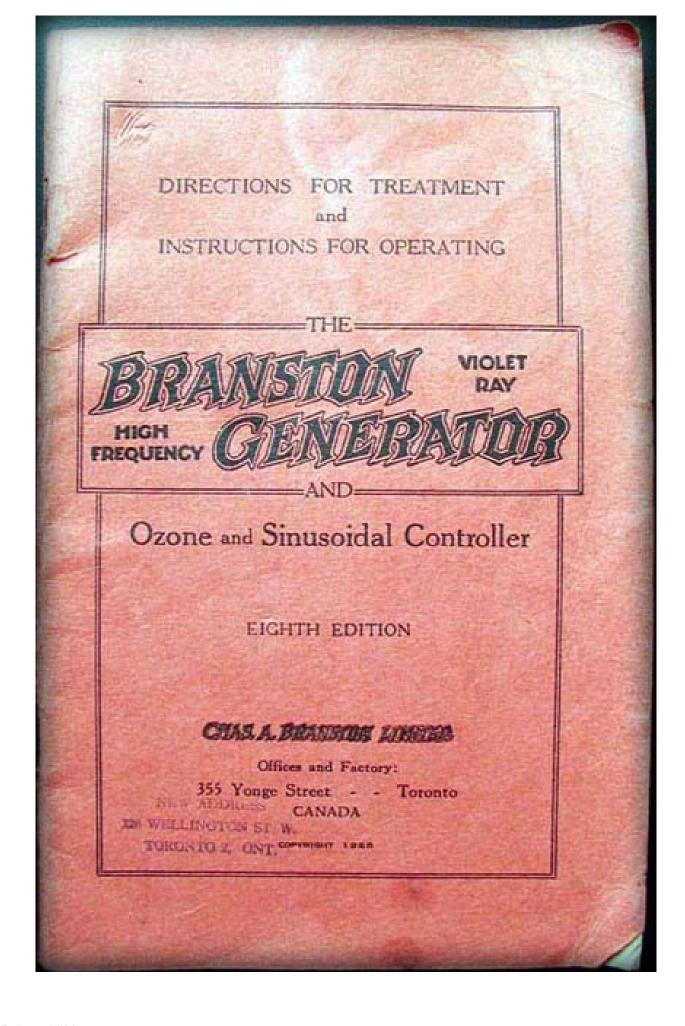
Dieser Temperatur-Regler Cluszylinder das Wesentlichste für Sicherheit Heizkissens. D.R.P. Street. Es hat

das Prüfzeichen des Ver-bandes Deutscher Elektrotechniker crhalten, d. h., es ist nach den Vorschriften des Verbandes Deutseher Elektroteehniker fabriziert und von diesem Verband auf Feuer- und Leben:gelährlichkeit sowie auf mechanische Haltburkeit geprüft. Heizkissen, die den Sicherheits-orschriften des Verbandes Deutscher Elektrotechniker Deutscher nicht entsprechen, dürfen das nicht entsprechen, dürfen das Prüfzeichen nicht tragen. Sie bieten keine ausreichende Sieherheit gegen Feuers und Lebensgefahr. Kunfen Sie da-her nur Heizkissen mit dem Prüfzeichen des Verhandes Deutscher Elektrotechniker und mit der Schutzmarke Dreimännerbild. Diese Zeichen bieten Ihnen Gewähr für höchste Betriebssicherheit. höchste Betriebssicherheit.



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Preis in Normalgröße 34×35 cm 24.- RM,



IMPORTANT NOTICE

We will make any repairs or replacements that are necessitated through defective material or workmanship during a period of one year free of charge, providing your generator is returned to our factory BY YOU DIRECT, via Parcel Post or Prepaid Express.

Do not ask your dealer to return generator to us as repairs will be made free, only when returned to the factory direct by the purchaser. Repairs on generators returned through dealers or jobbers will be chargeable.

When your generator is to be returned to you via Parcel Post, be sure to mail us sufficient postage to cover RETURN PARCEL POST AND INSURANCE CHARGES.

We do not assume any responsibility for accidents, neglect or if the machine has been taken apart, altered or repaired outside our factory.

Our guarantee does not apply to BROKEN INSU-LATED CORDS, nor does it cover dry cell batteries in battery models or VACUUM ELECTRODES.

Chas. A. Branston Limited 355 YONGE STREET TORONTO

NEW ADDRESS 12a WELLINGTON ST. W. TORONTO 2, ONE.

Instructions for Operating

READ CAREFULLY

If the generator does not at once begin to operate, turn the controlling knob to the right. Then, should the current not come through to the electrode, hold the glass bulb in the hand for a moment or two. The warmth of the hand breaks down the vacuum in the tube, permitting the current to flow through. Adjust the controlling knob right or left to obtain the desired strength of current. Right increases and left decreases strength of current. This controlling knob is not a switch and does not shut off the current, but is simply to regulate the amount of current delivered by the Generator. As soon as through using be sure to turn off the current at lamp socket or receptacle. All models, except Nos. 27 and 29, will operate on either direct or alternating current, and on any voltage from 100 up to 120. The Sinusoidal current, as given by our Models 27 and 29, is only obtainable from our Generators when they are connected with alternating current of 100 to 120 volt. If they are connected to direct current, the Sinusoidal controller will deliver a true Galvanic current.

(Generators are also made, when ordered, for operating on voltages from 120 to 250, direct or alternating, also on 32 volt lighting system.) Do not permit Generator to run without an Electrode being in the handle and the current drawn from the Electrode. Otherwise the current is converted into heat and eventually will heat the handle.

The Generators Need no Oil.

If the machine does not operate after following these instructions, Return to Factory, charges prepaid, for examination.

To obviate any unpleasant sensation when first making contact with a patient, the operator should hold the thumb or forefinger on the electrode, thereby taking the current until contact has been made. As soon as the electrode is in contact remove the thumb or finger so that the patient will receive the full flow of current.

In treating with No. 2, metal electrode, let the patient clasp it in his hand before the current is turned on so that there will be no unpleasant sensation. The operator's fingers should then be run very lightly over the scalp and forehead and through the hair or over the parts to be treated, finger ends barely touching, so as to draw the current through the part treated.

CAUTION

 In massage and scalp treatments do not use a liniment or hair tonic containing over 40 per cent. alcohol, or any inflamable ingredient.

Although the spark from the vacuum tube is germicidal in character, yet ordinary sanitary rules should be followed in

the care of electrodes.

3. Never insert or remove an electrode from any orifice of

the body while the current is turned on.

 Make it a general rule to never allow a vacuum tube to remain in contact with mucous membrane for more than seven minutes at one treatment.

5. When introducing electrodes Nos. 17 or 18 into the urethra, care should be taken not to use any undue force and

thereby break off the glass tube in the canal.

 Electrodes Nos. 11, 12, 13, 14, 15, 16, 17, 18 should be lubricated with Lubra-Septol before being introduced into the

body.

7. Any electrical device should be kept clean and dry. It should never be used where there is any danger of its becoming wet or handled with wet hands. Never use or handle any electrical device when any part of the body is immersed in water or wet, and when any part of the body is in contact with metallic connections. Never attempt to use the current for electric baths.

Any deviation from this rule is likely to result in damage to the instrument and may lead to an unpleasant, or, in rare in-

stances, to a severe electrical shock to the operator.

Never operate for more than twenty minutes at a time, as coil is liable to overheat and shorten the life of the Generator. Always allow it to cool down for a few minutes before using it again.

8. When holding metal electrode with one hand never let the other hand, or any part of the body, come in contact with water, radiator, or gas pipes, or with the metal parts on top of Generator.

PREPARATION OF THE PATIENT

When the surface of the body is to be treated, if no spark is desired, the electrodes must be in contact with the skin, and any clothing covering the part must be removed.

All metal, such as chains, corset steels, wire hair pins, etc., with which the tube comes in contact or within sparking distance will act as conductors and will give rise to sharp and disagreeable sensations. If they cannot be avoided they should be removed. Celluloid combs or hair pins must positively be removed, as they are inflammable if the spark should come in contact with them.

Aside from the reason spoken of above, when a sharp spark is required there is no necessity of removing the clothing, in fact a definite thickness of clothing gives a definite length of spark.

When the electrode sticks to the skin, dust with talcum powder.

GENERAL TECHNIQUE IN SKIN DISEASES AND LESIONS

In applying the high frequency spark over the surface of the body (as in Acne, Eczema, etc.), employ a current of sufficient strength to produce a spark one-quarter of an inch in length. Keep the tube in light contact with the skin and pass rapidly back and forth over the area to be treated. If the skin is moist, and the tube sticks, dust with talcum powder. Another method is to place a thin cloth over the surface, which will enable the tube to be moved smoothly and at the same time does not remove it far enough from the surface to make an unpleasant spark.

When itching is marked, the tube is raised from the skin, and as sharp a spark employed as the patient will tolerate for a short period of time. This quickly relieves the itching.

In treating lupus or any chronic ulcers, a spark is employed in the same manner, that is, as sharp as the patient can stand, but for not longer than one or two minutes at one time.

TECHNIQUE FOR RELIEF OF PAIN

In headaches and neuralgia and other painful conditions, the No. 1 surface electrode is applied over the affected parts and relief can be had in five to twenty minutes, depending on how severe the pain may be. Refer to special directions under respective headings.

ORIFICIAL TECHNIQUE

The technique of the application of the orifices of the body involves a use of tubes suited to the various areas, and also increases the importance of sterilization and lubrication. In these cases the tube is in contact with the mucous membrane and no sensation is felt except that of warmth. To avoid any danger of burns the tubes should not be left in contact for longer than seven minutes at any one treatment. Tubes should always be inserted before the current is turned on, and not removed until the current has been turned off. Lubricate tube with Lubra-Septol.

LOCAL AUTO-CONDENSATION

The "Plate Glass" Method. Various methods have been devised for applying local Auto-Condensation locally over small known as the "Plate Glass" method, consists in using the No. 2 metal handle and applying the sparks through thick plate glass held in contact with the patient's body. The glass is the di-electric, the metal handle corresponds to one plate of a condenser and the surface of the body next to the glass, to the other. This treatment will be found very effective for lowering high blood pressure, without producing heart depression.



It has a more powerful action on all germ life than any other form of electricity. The increased internal body resistance is lowered materially. If the blood pressure is taken before and after treatment, the success of this treatment will be clearly demonstrated. This same treatment tends to break up calcerous deposits on the arterial walls. Waste products and urea are eliminated, also carbon dioxide. The effects of this form of High Frequency on hardening of the arteries, nephritis (Bright's Disease) and apoplexy, the two last troubles being caused by the first, are wonderful.

CAUTERIZATION

If a hot spark is held steadily over the spot from thirty seconds up to two or three minutes, varying with the patient, it will have a cauterizing effect. The reaction is severe and the destruction of tissue may be carried to a marked degree. Such applications are used in the treatment of warts, moles, etc.

SUMMARY OF VACUUM TUBE EFFECTS

A mild contact with tube in contact is sedative. As the current is increased or the electrode raised from the surface, allowing a spark to pass, it becomes first stimulating, then strongly stimulating, and finally caustic and destructive. The effects of the tube application are as follows:

- 1. Increases blood supply to given area.
- Increases oxidation and local nutrition.
- Increases amount of oxygen in the blood.
- Increases output of carbon dioxide.
- 5. Increases secretion and elimination of waste products.
- 6. Liberates ozone.
- Increases bodily heat without corresponding rise in temperature.

8. Locally germicidal.

As to treatments: These must be taken regularly every day and not when you feel like it. Set aside a time for these appointments and keep them.

Electrodes which lose their vacuum should not be thrown away. Return these to our factory, together with one-half their original cost. They will be repumped equal to new and returned post free.

All Branston generators are guaranteed for one year only when used with Branston Standard Electrodes.

The length of the life of a vacuum tube is variable, like that of the electric light bulb. We cannot guarantee vacuum electrodes for any length of time. We manufacture the highest grade vacuum tubes that can be made, and test all tubes before sending them out: then, having provided our customers with the best the market affords, our responsibility ends. Electrodes should never be laid on a cool surface while warm, as sudden expansion or contraction may exhaust the vacuum. Lay on soft cloth.

No. 1-Surface Electrode.

The surface Electrode, as its name indicates, is used for treating the face and the entire surface of the body. Move the



Surface Electrode slowly over the face in order to increase the circulation of the skin and improve the complexion. Whereever this electrode is applied it improves the surface or capillary circulation, and so promotes nutrition that hollow places in the face and body are filled up. The Surface Electrode is moved slowly over the entire body to increase circulation, overcome cold extremities, and to give a general tonic treatment. See directions for Ground Electrode.

Stimulating Effects: To produce this effect which increases the circulation to the parts treated, relieving pains or sore and stiff muscles, apply Surface Electrode No. 1 over the undergarments. Keep the electrode moving. The strength of current can be regulated by turning the knob on the Generator.

An extra Surface Electrode should be kept on hand in case one should become broken or the vacuum exhausted.

No. 2-Metal Electrode.

When this electrode is held in the hand the entire body is rapidly saturated with high frequency electricity and very invigorating effects are produced. When holding metal electrode with one hand never let another part of the body come in contact with water, radiator or gas pipes, or with any metal part on top of the generator.

No. 3—Glass Saturator Electrode.

Takes the place of metal electrode for tonic treatments. You do not make direct contact with metal and it is impossible to receive a shock even if user accidentally comes in contact with a grounded object.

No. 4—Rake Comb Electrode.

The Comb Electrode in the form of a rake is used to bring the Violet Rays in close contact with the scalp and to make several points of contact at one time. Violet Rays thus applied destroy any germs at the roots of the hair and so increase the circulation, through the scalp, that nutrient hair building material is brought to the hair roots, and any local cause for dandruff or falling hair is overcome.

No. 5-External Throat Electrode.

When it is applied to the skin on the outside of the throat the current flows inward, increases the circulation and carries away any waste matter, thus eliminating any congestion in the throat.

The shape of this electrode makes it especially adaptable for treating the arms and legs.

No. 6-7-Internal Throat Electrodes.

Place this electrode in touch with the mucous lining of the mouth before turning on the current, then move it slowly over the affected area, or as near it as possible. Another person can place his hand on the back of the neck while the Violet Rays are being applied to the throat internally, and his hand will draw the current out at the point of contact so that the current will be made to flow in a direct line from where the electrode is applied to where the hand of another person is applied, thus flowing through an affected area. If the Throat Electrode is applied to the front of the throat or over the bronchial tubes, the current will be drawn through these parts.

After placing the electrode in the mouth in contact with the mucous membrane and turning on the current, do not lift the electrode away from the mucous lining until the current has been turned off, as a sharp spark will produce a stinging sensation which will be disagreeable, but not harmful.

No. 8-9-10 Nasal and Ear Electrodes.

The Nasal and Ear Electrode is applied to the mucous membrane of the nose, five minutes at a time, to give internal treatments for Nasal Catarrh, colds or growths in the nose. The current should not be turned on until the electrode is in contact with the moist mucous membrane surface, so as to obviate any disagreeable spark. Used as an Ear Electrode, it is inserted in the ear against one side of the canal, but not deep enough to touch the ear drum. All troubles of the ear, such as catarrhal deafness, earache and chronic middle ear affections, are benifited by the Violet Ray treatments through the ear electrode.

No. 11-12-Vaginal Electrodes.

This electrode is used in all catarrhal conditions of the uterus and vagina. First lubricate with Lubra-Septol and do not turn the current on until the electrode has been inserted into the vagina. This treatment gives relief in the case of neuralgia of the uterus or ovaries, inflammation of the bladder, and in cases of delayed or painful menstruation. Use a medium current and do not apply the current to any internal organ for longer than seven minutes at a time. The No. 11 Vaginal Electrode is insulated with an air grip along the sides so that the current flows to the end of the electrode and no sparks are formed along the sides.

No. 13-Insulated Vaginal Electrode.

For generation of Ozone within the Vagina, Used for Ovaritis Leucorrhea, Vaginitis and pelvic inflammations.

No. 14-15-Rectal Electrodes.

The Rectal Electrode is used in treating stricture, hemorrhoids, piles, rectal abscesses and all catarrhal conditions of the intestines. Treatments through the rectum are very beneficial in diseases of the bladder and in prostatic troubles. The rectal electrode should be lubricated with Lubra-Septol and the current not turned on until the electrode has been inserted. Turn off current before the electrode is withdrawn so as not to spark affected parts.

No. 16-Special Prostatic Electrode.

Insulated so that all the current reaches the Prostate.

No. 17-18-Urethal Electrodes.

The Urethal Electrode is used for all inflamed catarrhal conditions of the urethal canal. It is lubricated and inserted before the current is turned on, and the current is turned off before withdrawing it so as to obviate any disagreeable spark. This treatment is very effective in stricture. The posterior uretha may be reduced almost as thoroughly and with much less pain by introducing a rectal electrode into the rectum.

Never treat an internal organ more than seven minutes at a time. Care must be taken not to use any undue force and thereby break off the glass tube in the canal.

No. 20 Spinal Electrode.

The Spinal Electrode has two points of contact and is made especially for treating both sides of the spine at once. The application of this electrode to the spine produces a very invigorating effect upon the entire nervous system. The electrode is convenient to use around the eyes and ears, as its peculiar shape enables it to fit in hollow places.

No. 21-Fulguration Electrode.

Is used to remove warts, moles, or to cauterize any skin surface. It is an electrode ending with a metal point so as to generate a spark from the Violet Rays. By adjusting the parts of the electrode, a long or short spark can be developed. Care must be taken in burning warts and moles not to burn too deeply. A very few sparks will whiten the skin and this skin will come off in a few days, leaving a healthy skin surface. After cauterizing apply the surface electrode in close contact with the caut-

erized spot in order to relieve the burning sensation.

Dessication Method (using Fulguration Electrode.) This method quickly removes warts, moles callouses. It is a quicker method than the "Fulguration Method" and not so painful or irritating. Bring the metal point so it slightly protudes from the glass opening. Lay the metal point right on the growth and keep it there for a minute or so, until it feels hot, then remove and rest for a few minutes and when treatment is resumed again, the growth turns white, collapses and becomes soft and dark. A little vaseline, antiseptic or talcum can be placed on growth. It forms a scab and finally drops off in a few days, leaving a healthy pink skin and no scar. Strength of current is controlled by the knob on the Generator.

No. 22-23—Eye Electrodes.

The Eye Electrode is for treating the eyes through the eyelids. This is used freely in all eye diseases with a medium current. If any disagreeable sensation is produced the current can be made very light by holding the hand around the stock of the electrode while the end is in contact with the eyelid. The double cye electrode, No. 23, treats both eyes at once.

This electrode can also be used for spinal applications.

No. 24 Condenser Electrode.

Condenses the current near the surface of the glass so as to produce considerable heat, which is very desirable in deepseated diseases and in all chronic cases. It carries the current very deep into the tissues and gives almost immediate relief in painful and rheumatic affections, Lumbago, Etc.



Showing how body should be bent forward so as to tighten painful muscles for treatment of lumbago.

No. 25—Cataphoric Electrode.

The Cataphoric Electrode is similar to No. 24 Electrode, except that there is a depression on the face of the tube for holding gauze wet in solution. The solution may be driven into the tissue. Do not use any solution containing over 40 per cent. alcohol.

No. 26—Spiral Electrode.

The Spiral Electrode is used the same as No. 1 Surface, but is larger and covers a larger surface, and is especially recommended for body treatment.

No. 36—Ozone Generator.

In this electrode the virtues of the Violet Ray are combined

with the virtues of ozone and the pine-laden air of the North woods. Those who cannot go to the pine woods for relief of Hay Fever, Lung and Bronchial troubles can inhale the ozonized pine fumes from the Generator with equally beneficial results. The ozone invigorates the blood and exhilarates the entire body, while the pine odors soothe and quiet the nerves of the nose and bronchial tubes. Numerous cases of Hay Fever, Asthma and Lung trouble have been relieved or cured by the use of our Ozone Generator. In cases of Hay Fever the treatment should begin several weeks before the time of the Hay Fever attack.

A few drops of the inhalent are placed in the receptacle at the top of the Ozone Generator and then the cork and nose piece are fitted into place. This electrode fits into the handle of the Generator, the same as any other electrode.

While inhaling the ozone, sit down and rest the handle of the Violet Ray Generator on the lap to prevent its dropping, hold the left hand round the neck of the glass below the part containing the inhalent. This will draw the current into the hand through the glass, warm the container and fill the upper receptacle with white vapor. Insert in the nostrils the small tube at the top and breathe deeply, at the same time agitating the rubber bulb so as to force the ozonized pine fumes into the nostrils. With the

double inhaler both nostrils can be supplied with the fragrant ozone at the same time. Also read carefully paragraph on "Ozone" on page 21. Our Ozone Combination Models Nos. 25 and 29 are specially recommended.

No. 35 Pyorrhea Electrode.

The Pyorrhea Electrode is applied directly to the gums for all conditions of weak or receding gums or for Riggs' disease; then turn on the current and move the electrode over the surface of the gums, keeping it in contact so as not to produce a spark. Turn off the current before withdrawing the electrode from the mouth so as not to spark the mucous membrane. This electrode drives ozone into the gums and neutralizes any acid condition of the tissues and also increases the circulation in all the tissues with the result that all weakness and diseases of the gums are rapidly overcome. Most remarkable cures in very severe cases have been reported after using this electrode. Be careful not to touch metal fillings in the teeth, as this will produce a slight spark.

No. 36-Roller Vacuum Electrode.

The Roller Vacuum Electrode, as its name implies, is a glass roller for general body treatment, used similiarly to No. 1 Surface, but covers the body far more quickly. It is especially recommended for general tonic treatments.

No. 37-Special Ground Electrode.

This is a sponge applicator, handle, and cord, used to draw the current out of the body at some particular point where the action of the current is especially needed. The end of the wire is connected with a large body of metal, such as a stove or metal bed, and the sponge, after being dampened in salt water, is applied to surface of the body. The best effects are realized by connecting the end of the wire with a fine wire, which in turn is wrapped around a nail or other piece of metal and dropped to the earth. This connects the body with the earth current, which of itself has some beneficial effects upon the human organism. When the Vaginal Electrode is giving the current from the Violet Ray Generator the sponge can be applied over the ovaries or over any other painful spot in order to draw the current through the body at that place. The surface electrode can be applied to any place on the back and the sponge of the Ground Electrode to the skin on the opposite side of the body and the Violet Rays can be carried directly through any painful area of any diseased organ.

Do not use this Ground Electrode with the earth or water or gas pipes while using the metal Electrode No. 2. Use the Ground with a vacuum tube Electrode only.

Directions for Treatment VIOLET RAY HIGH FREQUENCY



The electrode handle should always be held as shown, with the hand as near as possible to the end where the cord enters the handle. As it is impossible to absolutely insulate the High Frequency Current, this way of holding the handle prevents the current from being partially drawn through the hand away from the glass electrode.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Special Attention. In order to obtain the best results with the Branston Generator the treatment must be taken regularly according to directions. It is always better to wait 2 hours after meals before taking treatments in order to get the best results. Do not discontinue the treatments when you have obtained relief—keep them up for a longer period and effect a permanent cure.

Abscess. Use Electrode No. 1 with strong current in close contact with skin once or twice daily.

Acne Vulgaris (Pimples). No. 1 Electrode with medium current five minutes twice daily. Keep Electrode in close contact with skin. Special attention must also be paid to the Bowels and Digestive System which is generally the cause.

Adhesions. No. 1 Surface or No. 24 Condenser Electrode with current sufficient to produce half-inch sparks held in loose contact with the abdominal wall, seven to ten minutes.

Alcoholism. No. 1 Electrode over spine, solar plexus, and to the extremities. If blood pressure is high, use Auto-Condensation on spine.

Alopecia (Falling Hair). No. 4 Electrode used over scalp five to ten minutes twice daily.

Amenorrhea. Applications at least once a day in the Vagina for 7 minutes only, by means of the special glass vacuum elec-

trodes No. 11 or No. 12. In addition treatment should also be taken, with the No. 1 Electrode with slight spark over the lower abdomen and inner thigh. The Sinusoidal Current is also advisable to be used in combination with the Violet Rays.

Anal Fissure. (Split or tear in anus muscle.) The stretching of the muscle greatly benefits when used with the High Frequency Violet Ray glass Vacuum tube No. 14 or 15. Never treat longer than 7 minutes at a time and from 3 to 6 times a week. The Lubra Septol should be used on the electrode.

Anemia. Auto-Condensation and use of Ozone Generator is advised. The Sinusoidal Current should be used in combination with the Violet Rays.

Appendicitis. No. 1 or No. 24 Electrode with medium current kept moving in contact with the skin over region of appendix. On right side of spine at second and third lumbar use surface electrode for 5 minutes, as this has a beneficial effect on the appendix and cæcum. The Sinusoidal Current should also be used in combination with Violet Rays.

Arteriosclerosis. (High Blood Pressure) Auto-Condensation at least three times per week until results are obtained. Must be continued for forty or fifty treatments (see Eberhart's Manual, page 175, also Technique for Auto-Condensation on pages 3 and 4 of this direction book).

Asthma. No. 1 Electrode used over chest, allowing sparks to pass through underwear. Apply sparks on spine between first and second Dorsal on spine. Apply each side of spine bone. Same treatment for cold in the Lungs. Daily treatments of ten minutes' duration, also use Ozone Generator for ozone inhalations five minutes each day. Sinusoidal treatment is also recommended.

Atonic Dilation of the Stomach. In this we have complete relaxation of the motor fibres of the stomach. Use No. 1 Electrode over stomach for five minutes daily, followed by Auto-Condensation (plate glass method) for ten minutes. A five-minute treatment by surface electrode on spine, right behind stomach, is also beneficial. Sinusoidal Current is also advised.

Atrophy of the Optic Nerve. No. 22-23 Electrode used daily for five minutes in close contact with the eyelid, also at base of skull. The Sinusoidal Current is advised in combination with Violet Rays.

Backache (see Lumbago).
Baldness (see Alopecia).

Barber's Itch. Use No. 1 Surface Electrode for five minutes once daily.

Birth Marks. Treat with No. 1 Surface Electrode about

once or twice a day. Use a medium strong current. If part becomes irritable desist for a day or two, then commence again.

Blepharitis (Granular Eyelids). No. 22 Electrode with very mild current held in loose contact with the eyelid two or three minutes twice daily.

Boils. Paint with strong Iodine and allow to dry. Then use No. 1 Electrode (or better still No. 24 Electrode) in close contact with the skin. The Iodine will be driven right in.

Brain Fag. If blood pressure is high use Auto-Condensation applied daily, also No. 1 Electrode with medium current applied on forehead over eyes and back of ears and neck. If blood pressure is low apply sharp sparks to spine four or five minutes and over abdominal region for three minutes and over forehead and neck as above. Ozone inhalations, using Ozone Generator also desirable, five minutes daily.

Breast Development. Use Surface Electrode or Special Breast Electrode for ten to twelve minutes daily, medium strength. It not only enlarges the breast, but makes the flabby breast firm.

Bright's Disease. Surface electrode is applied from eight to twelve minutes over Kidneys and each side of spine at 11th and 12th Dorsal, which is on a line with the Kidneys. Also give about a twelve-minute treatment all over body for a general constitutional effect, Albumen quickly disappears.

Bronchial Asthma (see Asthma.)

Bronchitis. Sharp sparks, using No. 1 Electrode applied over chest and back, may be repeated every four hours until congestion is relieved. Auto-Condensation and Ozone inhalations are also advised.

Burns. Apply electrode according to size of burn in close contact until all sense of burning disappears.

Callouses. Callosities of all kinds are treated by application of sharp sparks, using No. 21 and Surface Electrode.

Carbuncle. Use No. 1 Electrode with medium current held close to the skin and moved over affected parts.

Cataracts (The Soft Variety). Treat with No. 23 or No. 22 Electrode over the closed eyelids with a medium strong current. Five minutes at a time is long enough. Twice a day, morning and evening is enough.

Catarrh (Nasal). Treat back of head and neck with Surface Electrode. Use No. 8 and 9 up in nose for about six minutes with a mild current. Our Ozone Generator should be used for three to five minutes each day. Treat daily.

Chilblains. The Surface No. 1 Electrode with a fairly strong spark applied right on the skin for about two to five minutes will bring about relief. Use a simple ointment under the Electrode.

Chronic Ulcers. Use a sharp spark from No. 1 Electrode to get a stimulating effect, afterwards treat through two or three layers of gauze with tube in close contact, medium current.

Cold Extremeties. High Frequency is an ideal treatment for this condition. Use No. 1 Electrode over extremeties, in loose contact, till the skin becomes red. Treatments over spine and abdomen also advised daily. Sinusoidal Current advised.

Cold in the Head. Our No. I Surface Electrode should be used about an inch above root of the nose. Applications on front of head about one inch back from where the forehead and hair meet will loosen the cold. Also use No. 22 or 23 Eye Electrodes as the secretions at back of eyes can be better reached with this Electrode. Use a few times a day as you are after speedy cure. Ozone inhalations should also be used.

Colitis (Inflammation of Colon). No. 1 Electrode with strong current passed lightly over bowel area or through underwear. Duration, fifteen minutes daily until relieved, and then three times weekly.

Constipation. Use as for Colitis, finish treatment by using sharp spark for about 2 minutes. Use daily. Auto-Condensation and Sinusoidal Current also advised.

Convalescence, In convalescence Auto-Condensation and a general body massage with No. 1, 26 or 36 Electrodes has splendid tonic effects. Sinusoidal Current advised in combination with Violet Rays for quick results.

Corns. If very much inflamed do not use No. 21 electrode, but only No. 22 Electrode with the concave cup end, which is best for corns and bunions. Regulate strength of machine by the knob on it.

Coryga (Inflamation of Lining of Nose and adjacent Parts.)
Our No. 1 Surface Electrode with a mild current rubbed slowly
over forehead and sides of face for about twelve minutes, two or
three times a day. See also (Cold in the Head) directions.

Coughs. Speedy relief may be obtained by rubbing of camphorated oil on chest and throat and then applying the surface Electrode on same parts for about ten minutes. This is especially effective for children when usual remedies have failed. For adults also use No. 1 Electrode through fairly heavy dry towel for 5 to 7 minutes.

Cystitis (Inflamation of the Bladder.) Nos. 11 and 12 Electrodes used daily for seven minutes at first, then every other day.

Dandruff. For any seborrhic condition use No. 1 or 4 Electrode with medium current kept in close contact with the surface twice daily.

Deafness (Ear Noises.) Treat on back of neck with Surface Electrode No. 1 for about four minutes. Then use our No. 8 or No. 9 Nasal or Ear Electrode. Insert in ear for a couple of minutes at a time. Also treat back of ear, down sides of neck (the Eustachian Tubes) for three to five minutes each. It is wise in some cases to use the electrode up the nostril, especially if there is a catarrhal condition. For a longer treatment of five minutes, pour in 5 or 6 drops of warm glycerine with 1% carbolic acid before using the elctrode. This gives a conducting body which prevents sparking and is comfortable.

Diabetes (Sugar in the Blood.) Proper diet must be adhered to. The Surface Electrode No. 1 is applied all over the abdomen and the liver twice a day; current should be strong. If a real strong current can be tolerated place a thin towel over the abdomen and apply Surface Electrode over the top of this. Also use Auto-Condensation four times a week, increasing treatments gradually from 7 to 15 minutes. Persevere.

Dyspepsia (see Atonic Dilation of the Stomach.) Use strong spark along both sides of the spine and opposite and above stomach area. The general tonic effect of ozone inhalations are also advisable as given by Combination Models No. 25 and No. 29, or No. 30 Ozone Generator. Sinusoidal Current strongly advised for permanency and building up of walls of stomach.

Earache. Use Electrodes Nos. 8 or 9, with mild current, with ear drops as in deafness, also No. 1 Electrode back of ear or mastoid three to seven minutes.

Eczema. Treat with Surface Electrode 5 to 10 minutes, over whole area involved. After treatment dust with Boracic

Powder and keep dry.

Eye Diseases. High Frequency Current is especially valuable in all eye diseases. Use Nos. 22 or 25 Electrodes with mild current five minutes daily, also at base of skull. The sinusoidal Current should be used in combination with Violet Rays (except granulation, catarrhal and infectious troubles.)

Fissure of Anus. A cure can be expected here. Use Electrode No. 15 for seven minutes daily. Lubricate with our Lubra-

Septol.

Felons. Once a day treat with No. 1 Surface Electrode,

about five minutes is enough.

Flabby Breasts. It is claimed by Dr. Monell that a stimulating application with Vacuum Electrode to the relaxed nipple of the flabby breast will immediately show its beneficial effect.

Gastritis (see Atonic Dilation of Stomach).

Glaucoma. Use Auto-Condensation to lower blood pressure, also No. 22 or 23 Electrode over closed eye for five minutes daily.

Goitre. First paint with strong Iodine and allow to dry. Use No. 1 Electrode or No. 24 Electrode with strong current kept in loose contact with the skin. Treat the sides of the neck as well as the goitre for five minutes. Then raise the tube and use as sharp a spark as the patient can stand for three minutes. Treat twice daily. In Exophthalmic Goitre the results are quicker than in simple goitre. Use until results are obtained. Numerous cures have been reported.

Gonorrhoea (Catarrhal Condition of Mucus Lining). In chronic forms good results can be obtained by using our No. 27, 28 or 29 or Vaginal No. 11 or 12 Electrode, followed by No. 14. Apply Lubra-Septol on the electrode before using. Treat for only seven minutes once a day.

Gout. Auto-Condensation is the treatment. Do not use during a severe attack.

Gray Hair. Use No. 4 Electrode three or four times weekly. This takes a long treatment to obtain results.

Grippe (Influenza). Tonic spark to spine and solar plexus, using No. 1 Electrode. Oxone inhalations are also beneficial, using No. 30 Ozone Generator or Ozone Combination Models Nos. 25 or 29.

Hay Fever. Use No. 8 Electrode up the nostrils, and No. 1 Electrode over the nose and upper part of spine. Ozone inhalations are of even greater importance. Use No. 30 Ozone Genererator or Ozone Combination Models.

Headaches. Use No. 1 Electrode over forehead, back of ears and back of neck until relieved.

Hemorrhoids (Piles). Use No. 14 or 15 Electrodes not longer than seven minutes at one freatment with mild current. This is remarkably effective. See Orificial Technique.

Herpes Zoster (Tingling or Itching Shingles or Ringworm which spreads over body). Use our No. 24 Condenser for penetration, about a ten-minute treatment every day for a few days will bring relief.

Hypertension (High Blood Pressure). See Local Auto-Condensation.

Hypotension (Low Blood Pressure). Use sharp, stimulating sparks to spine and solar plexus.

Impolence (Lack of Procreative Power). Use Prostatic Electrode No. 15 or 16 and No. 28 with strong current. There is practically no sensation in a mucus surface, only a seven-minute treatment is permissable. Once a day is enough. Also use the

No. 1 Surface Electrode over the 12 dorsal and first and second Lumbar for about seven minutes, raising electrode off the skin to permit it to spark, which produces a stimulating effect. After first week treat for 2 days. Then miss two days. See also Sinusoidal Directions.

Infantile Paralysis. Apply Surface Electrode the full length of the spine about an inch on each side of spinal bone. At the end of the spine, on affected side or sides; well treat the buttocks, as this is where the hollows come, and the nerves here have everything to do with the muscles of the legs. Now apply current over paralyzed legs and arms. Then over the abdomen, stomach and liver. Treat for fifteen minutes at a time.

As a change the Metal Handle No. 2 should be placed in the child's hand and tied so it can't slip out. Now, using the two hands, massage the affected parts, as well as the whole length of the spine for lifteen minutes, using olive oil as a lubricant. Rub it well in. This treatment is non-harmful and very beneficial as you gain the ordinary massage, the electrical and constitutional effect. Never treat immediately after a meal. Wait two hours. Two treatments a day is sufficient. See also Sinusoidal directions.

Influenza (La Grippe). Treat both sides of spine from top to end with No. 1 Surface Electrode, also treat over the eyes and side of nose with mild current. Our No. 8 or 9 can be used in the nose for a few minutes at a time. Be sure and treat over the Solar Plexus, immediately after treating the spine. If chilly, treat the spine through the clothing as this is very stimulating. Treatment lasts about ten minutes on spine, five minutes on nose and eyes and five minutes on Solar Plexus, Ozone treatments should also be taken two or three minutes, several times daily.

Insomnia (Sleeplessness). There are few cases that cannot be cured. Use No. 1 Electrode on spine, back of neck and ears and on forehead. Use daily for fifteen minutes, preferably before retiring. Also hold No. 2 Metal Electrode for ten to fifteen minutes before retiring.

Intestinal Indigestion (see Atonia Dilation of the Stomach). The Sinusoidal Current is also beneficial. The diet should be regulated.

Iritis (Inflamation of Iris of Eye). Our No. 22 or 23 Eye Electrode should be used. Use the electrode over the closed eyelids, using a medium current strength for five minutes. One can use the treatment three or four times a day for the first few days and then twice a day until relieved.

La Grippe (see Influenza).

Laryngitis. Apply No. 1 or 5 Electrode to the throat externally five or ten minutes daily in loose contact. Ozone inhalations are also advisable. See that the throat and tonsils are cleared by means of some good antiseptic gargle.

Leucorrhea. Use No. 11 or 12 Electrode daily in connection

with antiseptic douches.

Locomotor Ataxia. Use sharp spark along spine, over buttocks, abdomen and joints, followed by Auto-Condensation. Daily treatments at first; later three treatments weekly. The Sinusoidal Current should also be used.

Lumbago. Use strong current with Electrode No. 1 or No. 24 over the central lumbar region, with muscles on the stretch. Use sharp sparks. Relief always follows a 20 minutes treatment.

Massage. The patient holds the No. 2 Metal Electrode (in his hand) which is, of course, connected to the Generator. A second party uses the hands on the bare skin and massages the part to be treated. If this second party's fingers merely touch the skin a spark will be seen which shows the current being drawn to point of contact. Any given part of the body can be more vigorously massaged by placing a towel over the part and using a mild or strong current to suit.

Moles, Moth Patches. Fulguration is the method used for moles, warts, etc. Avoid destroying too much tissue. Use

No. 21 Electrode.

Mumps (Enlargement of Glands of Neck). With No. 1 or No. 5 Electrodes treat the swollen parts for about ten minutes.

Repeat when necessary, at least once every day.

Nasal Catarrh. Use No. 8 Electrode inside and No. 1 Electrode outside with mild current three to four minutes on each side. Ozone treatments with No. 30 Ozone Generator or Models 25 and 29, are of the greatest importance.

Nervousness. Treat the back of the neck, even well up on the head, with No. 1 Surface Electrode, also the whole length of spine. If very nervous, ten minutes is enough at a time, twice a day and then once a day. After a few weeks two or three times a week is enough. See also Sinusoidal Directions.



Neurasthenia. General treatment with No. 1 Electrode. If blood pressure is high use Auto-Condensation; if low, use tonic sparks to spine. Ozone is a desirable adjunct. See directions on Sinusoidal Current.

Neuralgia. Use No. 1 Electrode with medium current over painful area in light contact with skin. Treatment is the same for

all varieties.

Neuritis. In Neuritis we have an inflamed condition of a nerve,

the pain simulating that of Rheumatism or Neuralgia. High Frequency Current is curative in all cases. Use No. I Electrode over affected area with a mild sedative current in close contact with the skin. Sparks must not be used. Use once or twice daily if necessary, fifteen minutes for each treatment; continue until cured.

Obesity. Auto-Condensation is indicated, apply locally. Superfluous fat is a result of imperfect metabolism. Sinusoidal Current is also advised.

Pains (cf Any Sort). The application of our No. 1 Electrode directly over the area of trouble in close contact is certainly wonderful. Treat the spot until relieved. A mild, medium or strong current can be used according to the part of the body treated.

Paralysis. Use No. 1 or No. 24 Electrode along the course of the paralysed nerves and muscles, from the spine to the affected part, part of the time in close contact and part of the time raised to get a spark. Sinusoidal Current is also valuable.

Pelvic Abscess. Use No. 11 or 12 Electrode seven minutes twice daily. Also No. 1 Electrode externally over pelvic region with mild current.

Piles (see Hemorrhoids).

Pleurisy. First rub with strong camphorated oil. Treat throuh a layer of clothing with medium current over front and back until marked reddening is produced. Twice daily if necessary. Ozone treatments are also advisable.

Poison Toy. Our High Frequency Lubricant can be applied on the part. Use No. 1 Surface Electrode to cause spark over the affected area. To secure the desired sparks lift the Electrode off the skin about a quarter of an inch, or half an inch, and then let it down on the skin again. Alternate this mode of application. A five minute application is enough at a time. Relief is speedy.

Post Fracture Conditions. No. 1 Electrode used over affected parts helps to restore a normal condition. Also Sinusoidal current.

Post Operative Conditions. Same as above, and Auto-Condensation is also valuable.

Prostatic Diseases. Dr. Eberhart says he has cured over 90 per cent, of these cases. Use No. 14 or 15 Electrode seven minutes daily, mild current. See Orificial Technique.

Pruritis (Itching). This is relieved by using mild sparks over area.

Pyorrhea (Catarrh of the Gums). Best thing to do is to have the deposits removed by your dentist before commencing treatment. As the High Frequency Violet Ray is antiseptic as well as anti-toxic there is a surety of promoting nutrition and establishing a healthy condition of the gums. Use our Pyorrhea Electrode No. 35 for seven minutes on the gums a couple of times a day and no more. A mild or medium current is used. Special and more complete directions for treating Pyorrhea may be found in Dr. Eberhart's manual.

Rheumatism. High Frequency Currents are of exceptional value in this disease. Use No. 1 or 24 or 25 Electrode in loose contact with the skin over affected area until relief is obtained. Use twice daily if necessary, and until cured. Also use No. 2 Electrode for 20 minutes once daily. When painful condition has subsided, Sinusoidal treatment is recommended.

Ringworm. The No. 1 Surface Electrode is used over the affected part with small sparks. Two or three times every other day is the mode of treatment.

Scars. Use a strong spark over the scar tissue. The edge of our No. 1 can be used or our Fulguration Electrode No. 21. One treatment generally suffices, a scab generally forms and drops off, leaving a healthy normal tissue. Sometimes it requires a second treatment. Follow up treatment with No. 1 Electrode in close contact with skin to improve circulation.

Sciatica. Apply No. 1 or 24 Electrode along the course of the nerve and to lower part of spine. Ten to fifteen minutes daily.

Skin Diseases. See Technique on Eczema.

Sprains. Use No. 1 Electrode with moderate current in light contact and rub gently over sprain. Repeat every two or three hours. Rest is necessary.

Sore Feet (Bruises of any kind). Use our High Frequency Lubricant first and apply our No. 1 Electrode over the area for a few minutes at a time. Relief is prompt.

Sore Throat. See Laryngitis.

Stiff Neck and Stiff Joints. Apply Surface Electrode No. 1 for about fifteen minutes, twice a day, on joints. If applying on neck, apply behind ears and down sides of neck for about five minutes.

Tic Douloureaux. This has been successfully treated by High Frequency Current. Prolonged applications with No. 1 Electrode with medium current over the course of the nerve, and upper part of spine. Do not spark. Use in close contact. Iodine may be applied with good results, over the area, previous to treatment and allowed to dry.

Tonsilitis. See Laryngitis.

Tuberculosis. See Pleurisy.

Ulcers. Use No. 1 Electrode for about five minutes in contact. Lift the Electrode every now and then to produce a spark of at least a quarter of an inch long. Once a day is sufficient.

Varicose Ulcers. Long, thick, muscle-toning spark over the affected limb, on the spinal centres and on the general muscle masses of the body are indicated. Use No. 1 or 24 Electrode.

Warts, Wrens and Other Small Growths. Use our Special Fulguration No. 21. It produces a fine needle spark. Apply long enough to growth to cauterize it. A scab forms and it drops off, leaving a healthy pink tissue underneath. No scar will result. Ordinary antiseptic methods should be used until the tissue heals.

Whooping Cough. No. 1 Surface Electrode is used. Treat the same as for Asthma. The Ozone inhalation is also used.

Wrinkles. Apply our No. 1 over the wrinkles. If at corners of eyes, move the Electrode outward and in a circle. The same on the forehead. Use your judgment as to movement of Electrode according to location of wrinkles.

Writers' Cramp. Use No. 1 Electrode with medium current applied in light contact from finger tips to and including shoulder area and upper spinal centres.

OZONE

PRODUCTION. Whenever an electric spark passes through the air ozone is liberated. Ozone is known under the chemical symbol O3, and is an allotropic form of oxygen. At the same time ozone is liberated nitrous and nitric oxides are also produced.

When you inhale Ozone, you take into your Lungs, and through your Lungs into the blood, life sustaining and purifying Oxygen in its most potent form. Ozone increases Oxygenation of the blood and tissues, and increases the number of red corpuscles. It has been proven, beyond all doubt, that Ozone will quickly kill the most infectious germs and Micro-organisms, and it will do this without injuring the most delicate mucous membrane. Ozone provides more than the equivalent of bracing Mountain or Sea-shore atmosphere, right in your own home.

When taking treatment with the Ozone, the Patient should be made comfortable in an easy-chair or couch, so that the body can be thoroughly relaxed. The room should be cool and slightly darkened. Ozone should then be inhaled by means of a "Branston No. 30 Ozone Generator" or through the mask, provided in Models No. 25 and No. 29. Ozone treatment should be taken, at first, from five to ten minutes, once or twice a day, gradually increasing the time of treatment. No treatment should be taken until after digestion has taken place.

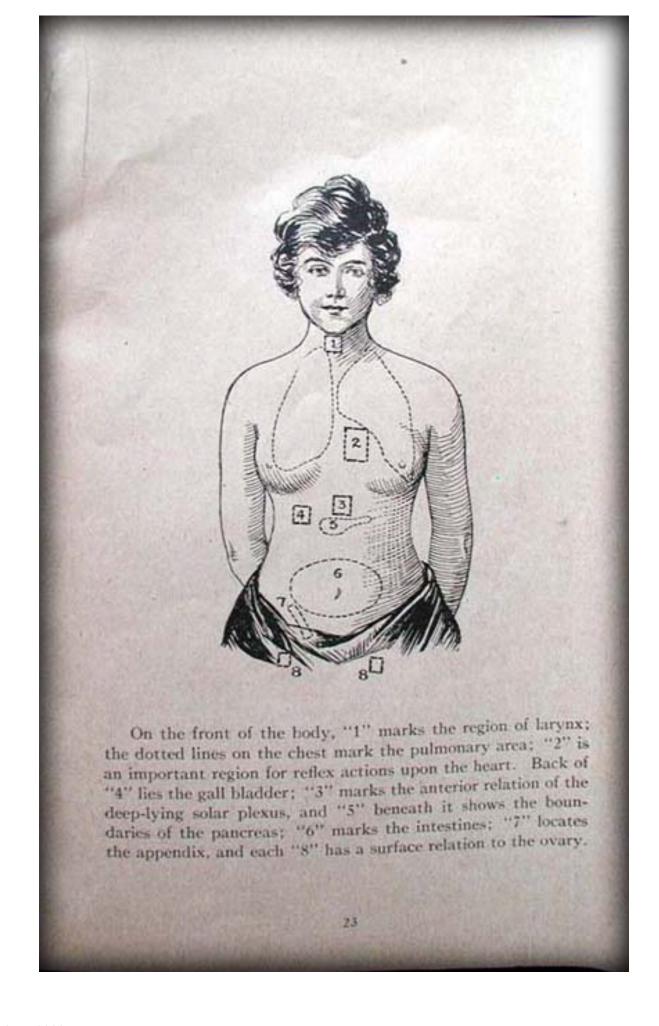
Daily treatments of Ozone cleanses and re-vitalizes the blood, thus enabling it to guard against attacks of sickness and disease.

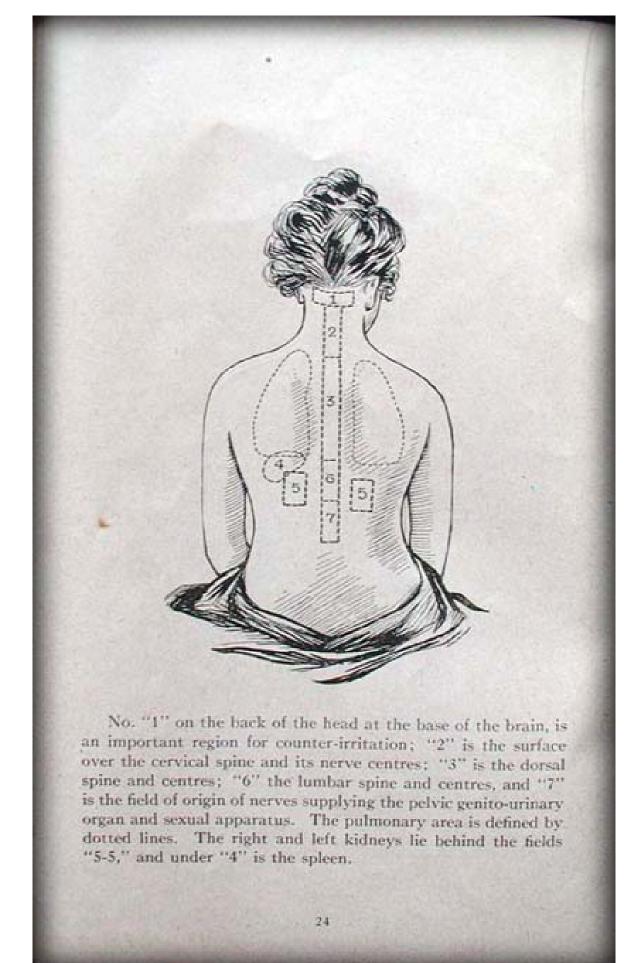
INDICATIONS. Ozone is beneficial to the extent that pure air is desired, but there are some diseases in which it is of particular benefit. These are: Anemia, all diseases of the respiratory organs, including tuberculosis; infectious diseases, and all conditions where there is imperfect oxidation and impaired nutrition. An ozone spray has been demonstrated to be healing in all forms of ulcers, etc.

METHOD OF USING. In cases where individual treatment is required it is not necessary to fill the room with ozone, as quite satisfactory results can be obtained by using the small portable Ozone Generator, which may be attached to the handle of the Violet Ray Generator, or in some of our models is equipped as part of our Generator. It has been found necessary to filter the ozone through essential oils in order to remove the nitrous and nitric oxides. Oil is supplied for this purpose.

The value of ozone should not be overlooked and cases where it is indicated are mentioned in the list of diseases in this treatment book.

The Ozone Generator on Models 25 or 29 should be operated in the following manner: First, unscrew the covering over the Ozone Cup and pour in enough Ozone Oil to fill cup 16th full. Then turn the Selector Switch to "2." Having done this, place the mask tighlty over mouth and nostrils and agitate bulb. Remove mask when breathing out.





The Sinusoidal Current

WHAT IT IS. It is a most scientific current of remarkable healing properties, most soothing in its application to the most delicate child or to the most robust man. It consists of a series of electric waves rising and falling gently in such a manner as to produce a perfect massage of the tissues through the gentle contraction and relaxation of muscle and nerve tissue produced.

The Sinusoidal Current was first discovered in 1893 by Dr. D'Arsonval of Paris. The use of this current in the treatment of many diseases, especially of muscular and nervous origin proved so effective that the leading physicians all over the world became intensely interested in the subject. Dr. J. H. Kellog, a noted authority on electricity, wrote largely of the many benefits to be derived from the Sinusoidal Current. Dr. Abrams of San Francisco wrote several books in which he called special attention to the remarkable curative effects of this form of electricity in many cases which had hitherto been considered incurable.

WHAT IT DOES. One of the most remarkable properties of the Sinusoidal Current is in increasing the tone of the various organs, such as the heart, lungs, liver, stomach, intestines, bowels, etc., which are not easily reached by other means of electrical treatment. This current can be directed into the organs named by applying the current along the spine to the nerve outlets from these organs. Many conditions of ill-health are due to lack of tone of the heart; some to the weakness of the kidneys or liver. By applying the proper stimulus to the organ affected, the general health can be built up.

REMEMBER THIS. Always moisten pads thoroughly with warm water, no current will come through a dry pad.

WHY IT IS APPLIED TO THE SPINE. Everyone knows and realizes that nearly every nerve in the body originates in the spinal cord, passing out between the vertebræ, having some function to perform upon the organs. Each nerve has its opponent nerve and when each pair of nerves are in perfect equilibrium perfect health is the result.

Realizing that all sensations are reflexed or transmitted to the end of the nerve; for example, the ulna (commonly known as the crazy bone on the elbow) being touched, sensation is immediately felt at the end of the fingers; so with every nerve originating in the spinal cord. Knowing this to be true, then by the use of Sinusoidal Current applied at the root of any of these nerves, it is immediately reflexed to the organ supplied by that nerve, such as the heart, lungs, liver, kidneys, bowels and pelvie organs. When any one of these organs has lost tone, the stimulus applied by means of sinusoidal electricity at the suitable spinal region will be reflexed to the organ, restoring its normal equilibrium (see chart as to where to apply treatment to the proper spinal region).

26

HOW PO LOCATE THE PART OF SPINE TO BE TREATED.

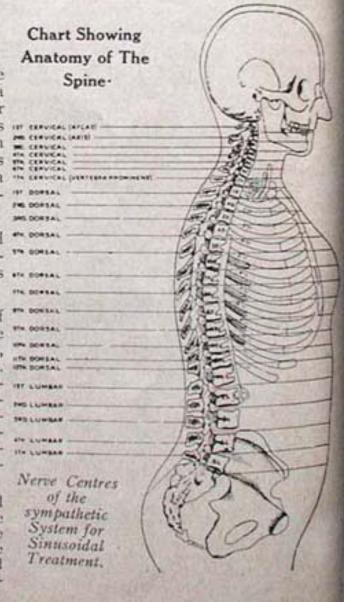
At the back of the neck will be noted a prominent bone or vertebræ which is more prominent than the others. This is called the seventh cervical, and is mark-red on the chart.

To locate the third fourth or fifth cervi-

To locate any of the dorsal vertebræ or lumbar vertebræ, count downwards.

There are twelve dorsal vertebræ numbered from top downwards, and five lumbar vertebræ just below the dorsal vertebræ.

By counting and feeling the vertebrae along the spine one can readily locate the part to be treated with the greatest accuracy.



Reflex Technique. (The stimulation of all nerves in the spine which control all the vital organs in the body). When using the hand sponge electrode on the spine at any of the spots mentioned, if the current irritates the skin, move it up or down until you hit the spot where there is no irritation. This last spot should be treated for five minutes, interrupting the current by our interrupting handle about twelve or fifteen times every minute. Of course, all this time the large pad is secure over the sacrum at end of spine. Thus you discover the weak spots in your spine and consequently the nerves must be interfered with. These nerves in your spine control all the vital organs in your body and must be attended to. If the organs in body have not the nerve control, they are weak, sluggish and in time play out-

REJUVENATING TO THE ENTIRE SYSTEM

This treatment is beneficial in Enlargement of the Heart, Palpitation of the Heart, Weak Heart, Leaky Heart (valvular trouble), Exophthalmic Goitre, Cold in the Head, Whooping Cough, Nose Bleed and Nervous Deafness.

SINUSOIDAL CURRENT DIRECTIONS

The coal-tar derivatives such as acetanilid and other preparations are used to stimulate the heart. After their effect has passed the patient is worse than before, as nature having spent her store of vitality is exhausted. No need of dope if you have our Sinusoidal Controller. Simply wet the large pad and place it at the sacrum (just below the small of the back) and with one small disc pressed at the seventh cervical (see chart) turn on a moderate current. After one-half minute turn it off. Rest one-half minute, repeat for five minutes in all. See that the pads are thoroughly moistened. If they become dry during the treatment wet them again. Treatments every day until relieved. The Sinusoidal Current will only work on the alternating current and not on the direct current.

Amenorrhea. Use one Sinusoidal Pad over the third Lumbar and the other over the lower abdomen. Treatment five to seven minutes. In addition, treatment should also be taken with the No. 1 Electrode with slight spark over the lower abdomen and inner thigh.

Anaemia (Thin Blood). Place our hand sponge electrode at the tenth dorsal on spine. The abdominal pad is placed over the sacrum. Treat for fifteen minutes. If bowels are lazy place abdominal pad on lower spine and move hand sponge over the whole abdomen, especially on the liver. If very much impoverished treat the whole spine on each side of it. These people need exercise in the open air and should eat the good old substantial food and take Cod Liver Oil in whatever form their

system will best tolerate it. It would be well in the above treatment, to interrupt the current for every half minute for five minutes by using our interrupting handle. (See Ozone inhalation for oxidizing the blood).

Angina Pectoris (Painful nervous affection of heart, with dilatation). Place hand sponge at 7th cervical on back of neck and abdominal pad on sacrum at end of spine. Treat for ten minutes, twice a day. Follow with Auto-Condensation, ten minutes, twice a day.

Asthma (Bronchial). Apply No. 101 over the 4th cervical i.e., the two sponge handles held each side of the neck. Use interrupting handle and interrupt current every half minute for about five minutes only. Use a very mild current. Treat several times a day if case is aggravated. (See Ozone inhalation).

Backache (Caused by kidneys being distended). Place hand sponge at 12th dorsal and abdominal pad on sacrum (end of spine). If there happens to be stone in kidney, this treatment will cause pain, so do not treat again. Better see a doctor. Interrupt current every half minute by using the interrupting handle for five minutes.

Biliousness (Caused by an overloaded gall bladder or the bile failing to flow in the duodenum). This can be relieved with the Sinusoidal Electricity. Use No. 101 Electrode on the 5th and 6th Dorsal Vertebræ on the right side of "Spine Bone" and No. 133 on the sacrum or the lower abdomen.

Turn on current until you feel it on spine, never mind if you do not feel it on the stomach; treat for fifteen minutes.

Bladder Trouble (Nervous conditions, frequent urination, etc.). Place abdominal pad just above sacral region of spine (lower spine) and place hand sponge over bladder. Treat from ten to fifteen minutes at a time, once a day is enough. It is also well to alternate the treatment and treat over the kidneys, by placing the abdominal pad on the kidneys and the hand sponge electrode over the bladder. Treat for ten or fifteen minutes, once a day.

Bronchitis. Use hand sponge on the back of neck and abdominal pad over the stomach. After a ten-minute treatment, shut off the machine and lower the neck pad to between the shoulder blade and treat for another ten minutes. This should give relief. If it doesn't, interrupt the current with our interrupting handle about twelve times a minute for five minutes. (See Ozone inhalation for reaching the weakened tubes).

Cardiac Enlargement. Placing the two Sponge Electrodes No. 101 on either side of neck at the 7th cervical, thus stimulating

the vagus nerve which controls the heart, will bring about speedy relief.

Catarrh. Place No. 101 at 7th cervical on back of neck and hand sponge at end of spine (the sacrum) for ten to fifteen minutes; gives desired results. Also treat with No. 8 or No. 9 Violet Ray Vacuum Electrode up in each nostril for three to five minutes to get the Ozone effect. If case is of long standing better secure our Ozone outfit. Interrupt Sinusoidal current every half minute, using interrupting handle. (See Violet Ray technique).

Cold Extremeties. The Sinusodial current as in Amenorrhea.

Colitis. Place one pad over the sacrum and the other over the ninth and tenth Dorsal Vertebrae

Deafness (Noises, Ringings, etc.). Be careful and do not use this current if pus is coming from the ears. Only take this treatment when going to bed, or if you are going to be in the house for hours at a time. Never go out in air after a treatment.

Fill ear with well-soaked piece of absorbent cotton; plug the ear full. Place sponge hand electrode on back of neck. Now, place well-moistened wooden handle sponge electrode over the ear and treat with fairly strong current from five to ten minutes but once a day. If two ears are affected, treat each one for seven minutes at the one sitting. Be careful not to sit in a draught. If you must go out, plug the ears with dry absorbent cotton. (See Violet Ray treatment for deafness).

Eyes (Atrophy of the Optic Nerve). Use our hand sponge electrode on the back of neck and our No. 112, the double eye electrode, over the closed eyelids. Use a very mild current for fifteen minutes but once a day. (The Violet Ray treatment with double eye electrode for five minutes hastens a cure).

Enteroptosis (Intestinal suffering). Place the two sponge electrode handles No. 101 one at 7th dorsal and other at 8th dorsal. Apply a medium current for about five minutes, but once a day. The muscles in the abdominal cavity can be made strong and well. (The Violet Ray can be used over abdomen for five or ten minutes).

Exhaustion. Place the two bare feet on foot plate No. 103, which is covered with a wet cloth and which is connected to the binding post on generator. Attach hand sponge to other binding post and place on the nape of the neck, turn on current to toleration and treat for ten minutes, once a day. Follow with a Violet Ray treatment with No. 2 Electrode for 5 minutes.

Falling Womb (Peoplauss Uteri). Lie on the back and draw knees up. The abdominal pad should be placed on small of back and hand sponge placed on abdomen about couple of inches either side of navel. Seven minutes on one side and seven minutes on other side. This will lift the womb if persisted in Alternate the treatment by using No. 108 Rectal Electrode lubricated with our Lubra-Septol-and inserted well up in rectum, with abdominal pad placed over abdomen. Treat for five minutes.

Goitre (Simple). Use hand sponge over goitre and abdominal pad over sacrum spine. Turn current on until you feel it in the gland. A fifteen-minute treatment is enough once a day. (See also Violet Ray Directions).

Goitre (Exopthalmic). Hand sponge at 7th cervical on spine, abdominal pad on sacrum. Interrupt current every half minute by using interrupting handle, for five minutes.

Hay Fever. Apply hand sponge on the 7th cervical spine and abdominal pad on scrum (lower spine) for five or ten minutes. Our Ozone outfit should be used in combination for a speedy cure. The Violet Ray should be used up nostril for five minutes two or three times a day.

Headaches (Sick). Place Hand Pad (No. 133) over the sacrum and the large pad between the shoulder blades. Treat 10 minutes.

Headache (Nervous). Use Sinusoidal Current with small pad over 8-9-10th Dorsal Vertebræ and large pad over Sacrum. 7 to 10 minutes treatment.

High Blood Pressure. Same as for Nervous Headache.

Heart. Place hand sponge on 7th cervical on back of neck and No. 101 on 4th dorsal just between shoulder blades. Treat for about ten minutes. Interrupt current every half minute, for three minutes, by use of interrupting handle.

Heart (Palpitation). Apply hand sponge electrode on spine at 7th cervical nerve on neck and abdominal pad on sacrum at end of spine. Interrupt the current by using the interrupting handle for five minutes only. The interruptions are from twelve to twenty times a minute.

Impotence. Place the abdominal pad over the abdomen. Take the hand sponge and treat each side of the spine bone (about one inch from either side of the spine) from middle of back down to end of spine. Treatment lasts ten minutes. Leave Abdominal Pad on abdomen and connect other to the Rectal Electrode No. 108, which is lubricated with our Lubra-Septol, and insert in rectum. Turn on current to toleration and treat for another ten minutes.

Indigestion (Dyspepsia). Never use any form of treatment immediately after eating, but wait for a couple of hours later. Better still, take the treatment before the meal. Use abdominal pad over stomach and the hand sponge on spine between the

fifth and sixht dorsal. Ten to fifteen minutes' treatment is enough, once a day. If suffering very much take two treatment a day. If constipation is present, see directions under constipation treatment.

Intestinal Indigestion. Sinusoidal Current over Stomach and Abdomen, followed by Surface Electrode, for 5 to 7 minutes. This treatment should not be given immediately after meals.

Kidneys. If the right or the left gives you pain, off and on, better apply hand sponge electrode on 7th cervical nerve on neck and abdominal pad of sacrum and let current of toleration run for ten minutes. Then, using our interrupting handle, interrupt the current about ten to twenty times a minute for but five minutes. A few treatments will contract the kidney. If pain persists, despite this treatment, there must be a stone in the kidney. A doctor should be consulted at once.

Liver Congestion. Place hand sponge on 1st to 3rd lumbar, and the abdominal pad on the sacrum (end of spine). Let current run for ten minutes and then, with the interrupting handle, interrupt the current every half minute for five minutes only. This latter contracts the liver and forces congestion out.

Lumbago. Use the Sponge Electrode over the spine at the 6th and 8th dorsal vertebræ and the abdominal pad over the painful area. Treat for about twenty minutes, twice a day at first, and then once a day until relieved. If it hurts most when you bend over apply sponge hand electrode on 8th and 10th dorsal spine. If it hurts most when you straighten up, the pad over the 6th to 9th dorsal is the mode of treatment. (See Violet Ray technique which, when used in combination, brings about quick results).

Mammary Glands (Caking and inactivity). Place Hand sponge electrode over 3rd and 4th dorsal spine and the wooden handle sponge over first one, and then the other side. Treat for fifteen minutes but once a day. This also enlarges the glands and consequently the breasts. (The Violet Ray in combination absolutely fills out the chest muscles).

Massage. Use our No. 103 with a piece of wet cotton placed over it. Stand on it with both bare feet (never mind if the plate is not large enough so long as the two feet are in contact with it). Take your hand sponge electrode or the No. 101, start at the nape of the neck, not on the spine bone, but about one inch on either side, and move the electrode slowly down the whole length of the spine, first on one side and then on the other. Next hold hand sponge over the Liver and then the

stomach. If the trouble is mostly in the legs, place hand sponge over the sacral spine, down near the end and leave it there for ten minutes. One can massage all over the legs if they wish, as well as the front of the body. This treatment will take about twenty minutes, once a day is enough. The Violet Ray can also be used (see instructions under this heading).

Menorrhagia (Profuse Menstration). Apply a strong current over the bladder with the hand sponge electrode, and the abdominal pad on the small of back. Treat for about ten minutes.

Menstral Pains. Apply hand sponge over 3rd and 4th dorsal spine and abdominal pad over abdomen. Treat about ten minutes twice a day.

Obesity. Use Sinusoidal Current as in Headache directions, follow by Auto-Condensation.

Pains (of Any Sort). The application of our abdominal pad as a dispenser can be used. If pain is anywhere in the back from the neck down to the end of the spine, place abdominal pad over the solar plexus. Then use hand sponge on the painful spot and leave it there. Turn on current to toleration and sit for fifteen minutes. The pain will be eased or dispersed. If pain is in the front part of body, place abdominal pad over Kidneys or on Sacral part of spine (lower spine) and use hand sponge over the painful area for ten or fifteen minutes. If pain is in legs, place wet cloth on foot plate, which is, of course, connected with binding post on Generator, and use hand sponge over painful area for about fifteen minutes. One or two treatments a day is enough. Use the interrupting handle for five minutes, and interrupt current every half minute.

Paralysis (Arm or Arms). Our handle sponge electrode is moistened and applied over the 3rd to 7th cervical nerves on back of neck, not on the spine bone in the middle, but just a little to the side, say an inch. The abdominal pad is placed on the sacrum at end of spine. Interrupt the current by using our interrupting handle. Interruptions are from twelve to fifteen times a minute, and length of treatment is but five minutes. Two or three treatments can be given in a day at first, but should be dropped to two in a few weeks' time and finally one a day. Can also treat locally all over arm for about seven minutes.

Paralysis (Infantile—Poliomyelitis). This condition is in the spine. Place our hand sponge electrode over spinal area indicated by the disease. The abdominal pad on sacrum at end of spine, or better still, procure another hand sponge electrode. as the abdominal pad is liable to be too large for a child. Interrupt current, which must be mild for a child, by using the interrupting handle for five minutes only. The interruptions are twelve times every minute for five minutes. Massage the paralyzed parts with the hand. Do not neglect this. Better have a doctor watch the progress of the case. Also treat muscles of legs and arms once a day for ten minutes.

Persistent Hiccoughs. To gain immediate relief, apply the small sponge handles on either side of the neck at the 4th cervical nerve for about a minute or two at a tolerable current. This contracts the diaphragm by stimulation of the phrenic nerve which controls it.

Piles (Hemmorrhoids). Use the No. 108 Metal Rectal Electrode. Lubricate the Electrode with our Lubra-Septol. Place the abdominal pad over the stomach. Insert rectal electrode in bowel about three inches. Turn current on until you feel it on the abdomen. Take about a fifteen-minute treatment. You will find many troubles and conditions clear up that have failed to yield to anything else, as well as the disappearance of the internal piles, bleeding, itching and heavy condition of lower bowel. (Also see Violet Ray instructions for quick and lasting results in combination with this treatment).

Prostrate Gland (Hypertrophy). The gland is, of course, enlarged. Apply our Hand Sponge Electrode over the 12th dorsal nerve on spine and the abdominal pad on the sacrum at end of spine. Interrupt the current by means of our interrupting handle, about fifteen to twenty times every minute for five minutes, only once a week. Remove pad from sacrum, and place it over the stomach and to the other cord attach the No. 108 Metal Rectal Electrode and insert up in rectum about three or four inches and press it against the front wall of the rectum, towards the bladder, which is against the prostrate gland. Turn on steady current and let it flow for ten minutes at a treatment. Once a day is enough. This combined treatment can be taken at the one time. It is wise to use the High Frequency Violet Ray glass electrode in rectum for seven minutes on alternate days for speedy cure. Dr. Eberhart of Chicago, Ill., claims absolute cure in 90 per cent. of these cases.

Stiff Neck and Stiff Joints. (Follow the same technique as used under Pains of any sort). Use your own judgment as to where to place the Abdominal Pad and see Violet Ray technique also.

Sore Feet. (Same technique as used under Pains of any sort. (See Violet Ray technique).

Neronusness. Place Hand Sponge on the nape of the neck. Place abdominal pad over the stomach. Turn on current until you feel it on the neck. (Never mind if you do not feel it on the abdomen), as this pad is about eight or ten times larger than the neck pad. Sit for ten to fifteen minutes and no longer, once a day is enough. If the spine is weak and sore, leave the Pad on the neck and place abdominal pad on Sacral Spine (lower spine) and sit for ten to fifteen minutes. To hold these pads firm on the skin, place a pillow between back of chair and your spine. (See Violet Ray technique for further treatment).

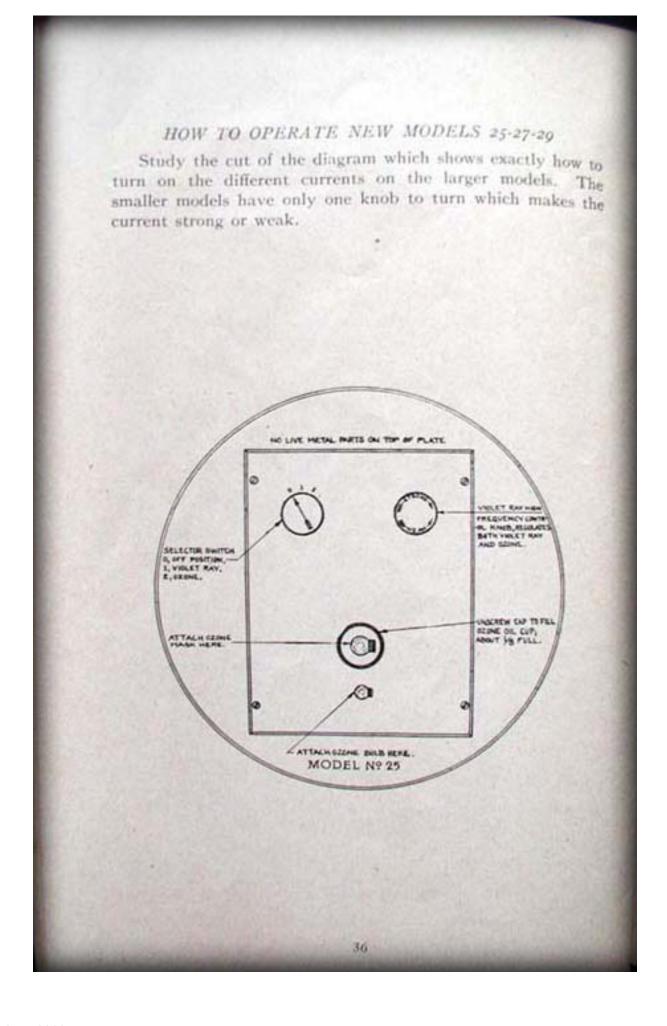
Stomach (Inactivity). Place our hand sponge Electrode on the 1st to 3rd lumbar spine and the abdominal pad on the sacrum at end of spine. Treat for ten minutes. If this doesn't arouse activity use the interrupting handle, interrupting the current about twelve to fifteen times a minute for only five minutes. One treatment a day is enough. Marvellous results accrue. (The Violet Ray can be used in combination with gratifying results).

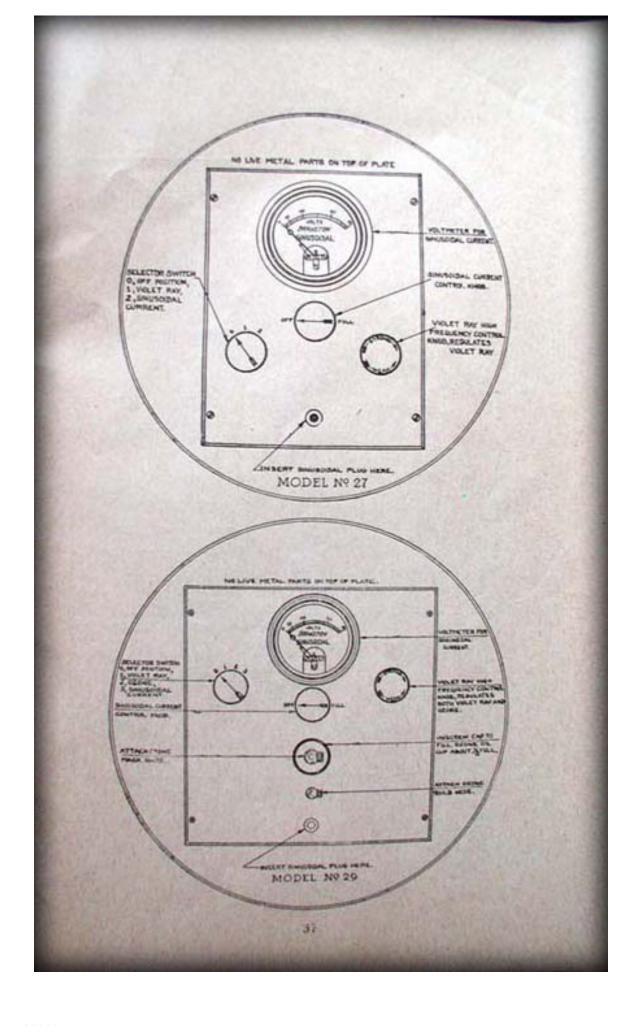
Tachycardia (Called the American disease caused by hurry, excitement, worry, etc.). Place the hand sponge electrode on the 7th cervical at back of neck and the abdominal pad over the sacrum at end of spine. Interrupt the current about twelve to fifteen times every minute for five minutes and then let the current flow evenly for another five minutes. You tone up the heart by action on the vagus nerve and thus the rate of the pulse is brought down to normal.

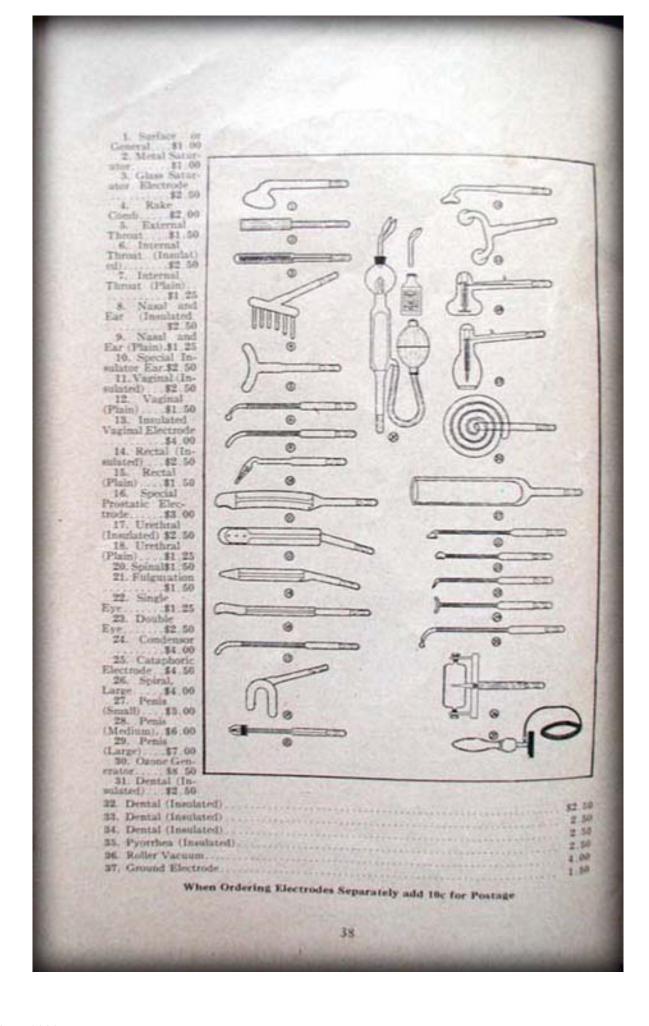
Vagus Nerve (Has everything to do in control of heart). By applying our hand sponge electrode on the 7th cervical and our abdominal pad on the sacrum at end of spine and letting current run for five minutes, then by using the interrupting handle and interrupting the current about twelve times every minute for another five minutes, one will be surprised how many symptoms of suffering are relieved by stimulating this wonderful nerve.

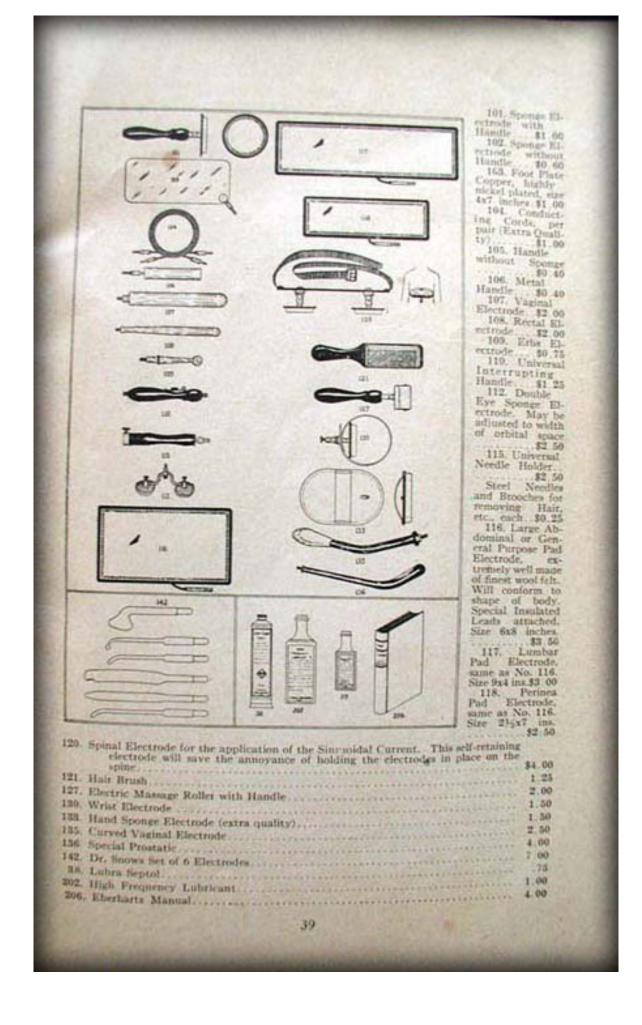
Womb (Subinvolution). Place our hand sponge electrode on the 1st and 3rd lumbar spine, the abdominal pad on the sacrum at end of spine. Let the current flow for five minutes and then, using the interrupting handle, interrupt the current about twelve to fifteen times a minute for five minutes more. The womb will contract, as any doctor can verify, by aid of the speculum. In a short time it will resume its normal position if there are no adhesions.

Whooping Cough. As soon as the coughing begins, hurry and place hand sponge electrode on the 7th cervical at back of neck and the abdominal pad on the sacrum at end of spine. Interrupt current twelve times every minute for three or five minutes with the interrupting handle and the spasm will be prevented. This will shorten the suffering and bring about cessation of this troublesome condition. 35









LUBRA-SEPTOL (STERILE)

The ideal Lubricant for use with Vacuum Electrodes for internal use. It is antiseptic and germicidal. Insures an easy introduction and the least inconvenience to the patient.

Price, per tube.

HIGH FREQUENCY LUBRICANT

This preparation is manufactured by Chas. A. Branston Ltd., especially for use in connection with electric treatment. For rheumatism, neuralgia, neuritis and kindred ailments, it proves invaluable.

Directions: Pour a teaspoonful of the lubricant in the hollow of the hand and rub over the affected part thoroughly. Then apply the Violet Ray current, which will drive the Lubricant through the pores of the skin and to the source of the pain. High Frequency Lubricant, per bottle \$1.00

A WORKING MANUAL FOR HIGH FREQUENCY CURRENTS

By Noble M. Eberhart, M.D., Ph.D., D.C.L., Prof. and Head of Dept. of Physiologic Therepeutics, Med. Dept., Loyola University, Chicago. Prof. of High Frequency, Illinois School of Electro-Therapeutics. Author of "Practical X-Ray Therapy," "Vibratory Technique," etc. An up-to-minute ready reference guide by the leading authority on High Frequency.

Just what its name implies, a working handbook, telling how to use these currents. No lengthy discussions, no perplexing technicalities, no "red tape." Over 300 pages; over 60 pages of illustrations. Handsomely bound. Price \$4.00 (postage, 10c).

BRANSTON OZONE GENERATOR No. 30

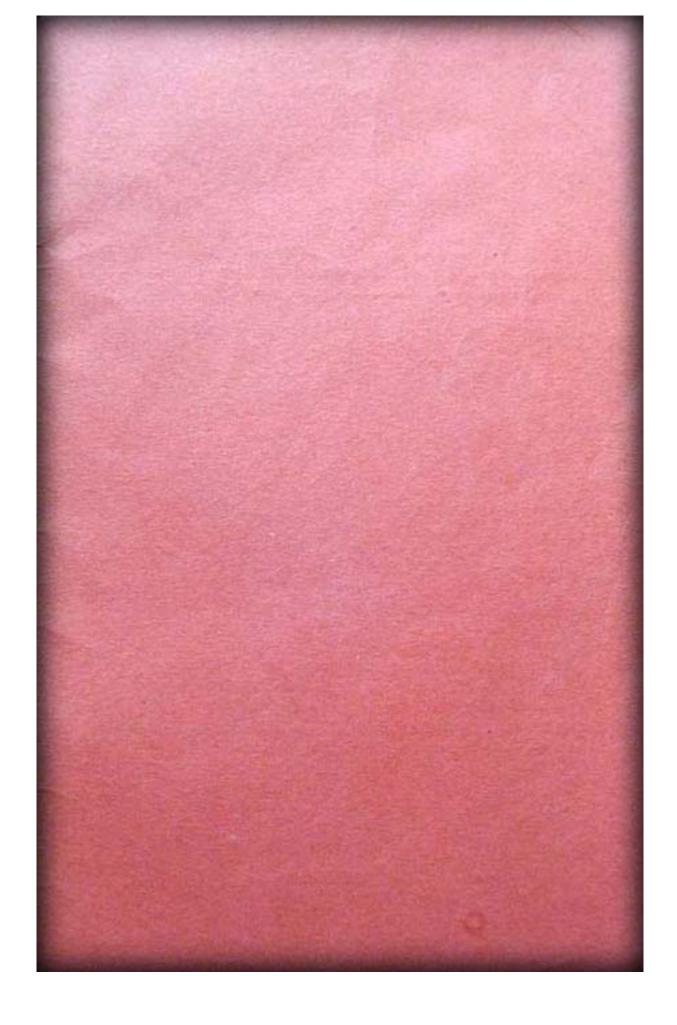
Can be used with any Violet Ray Generator. Direct medication. Valuable in the treatment of Throat, Nasal, Bronchial and Lung affections. Nervous ailments, Neurasthenia, Insomnia, etc. Complete in handsome leatherette case, with bottle of Ozone Oil and Glass Funnel.

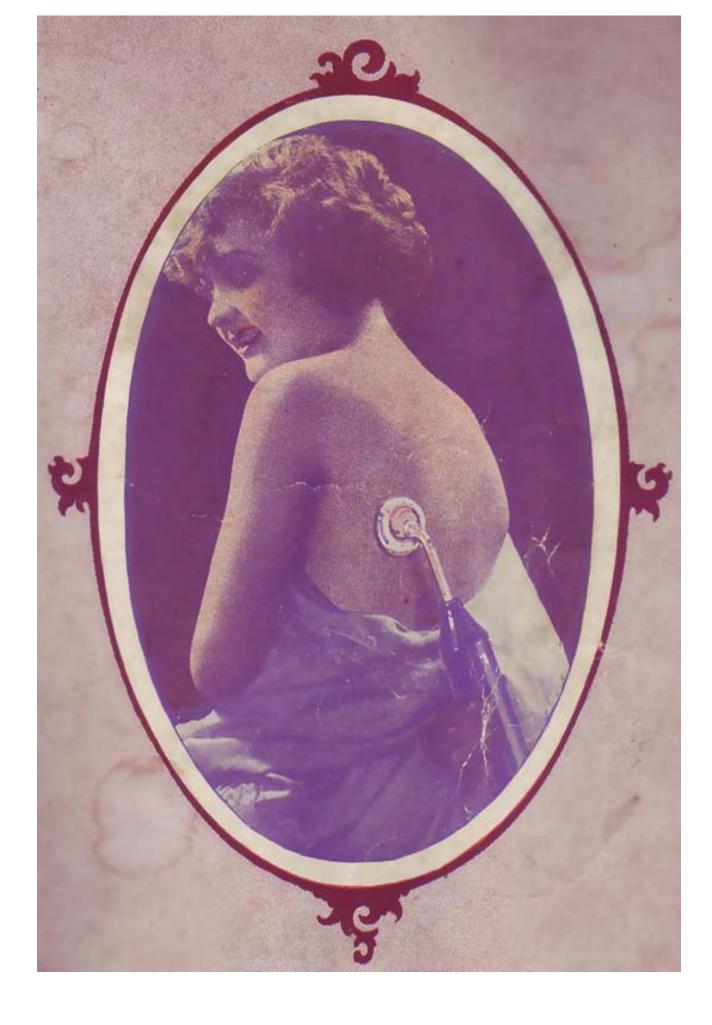
No. 30-Price \$8,50

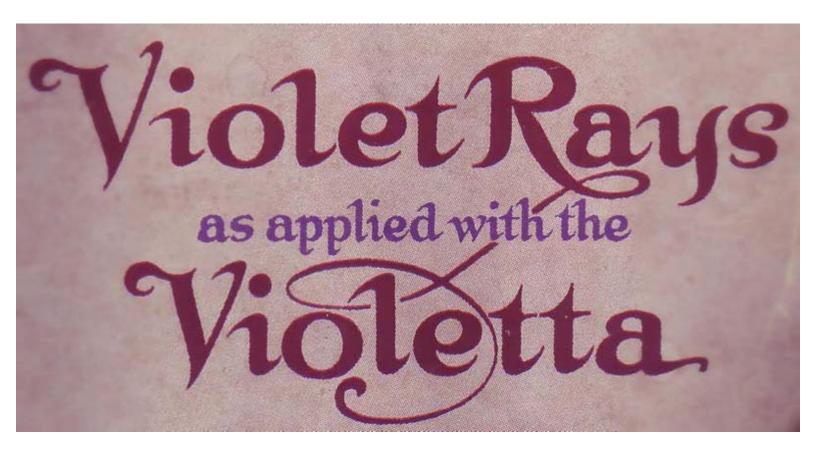
DR. SNOW'S SET OF VACUUM ELECTRODES

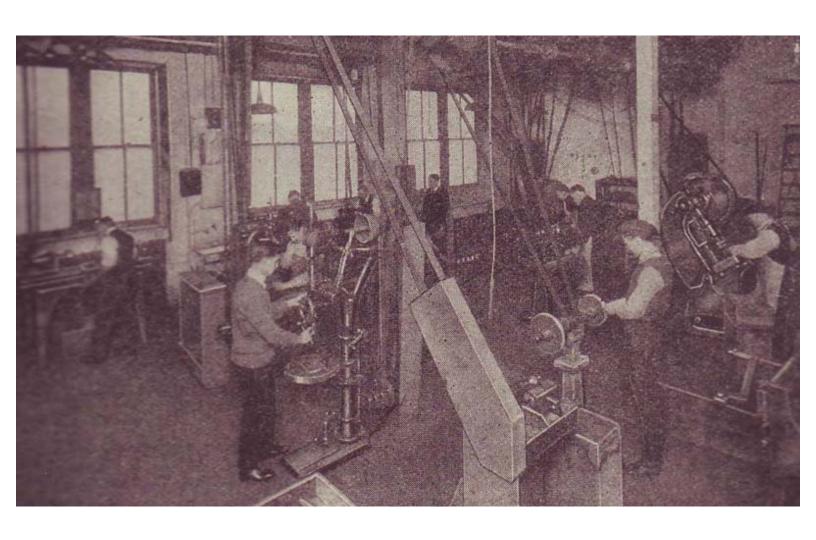
These electrodes are designed for general use. The set contains the following electrodes: Body, Vaginal, Rectal, Throat, Urethal and Nasal. Packed six in a set.

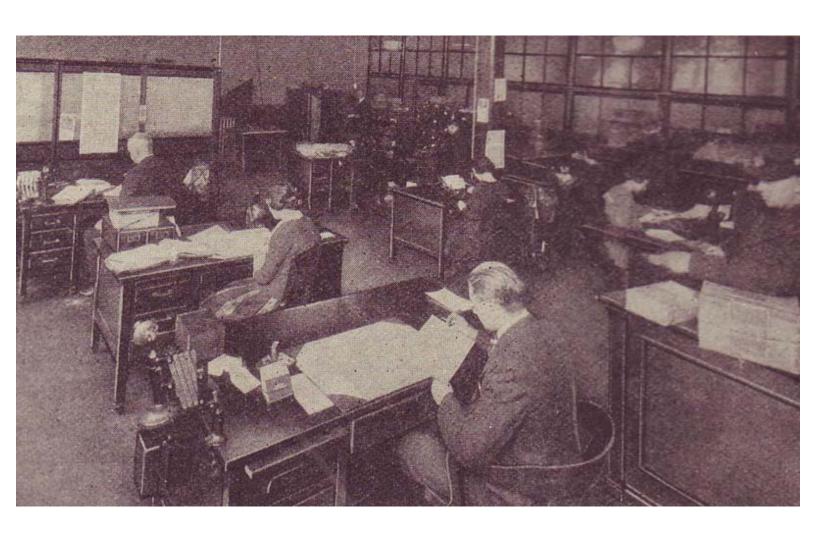
No. 142-Price \$7.00

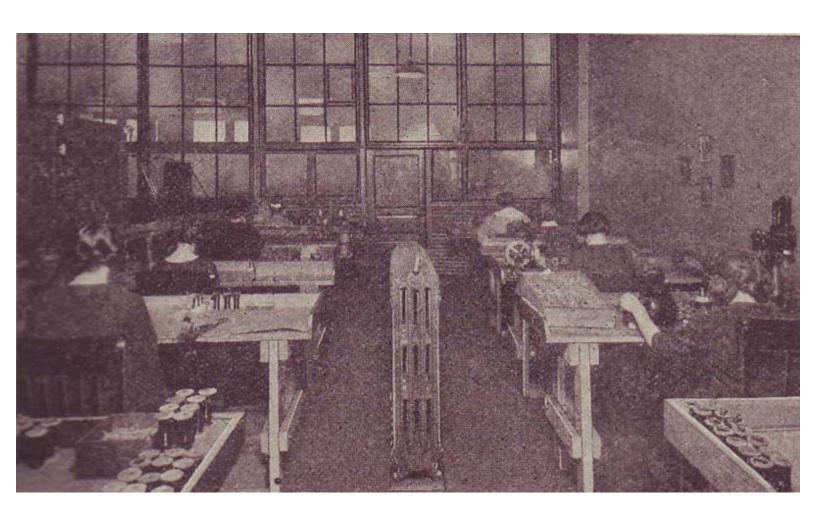


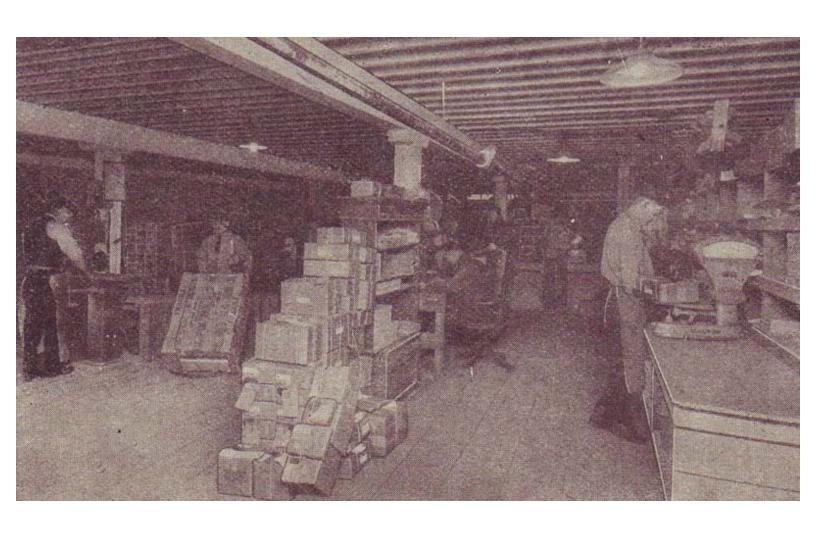


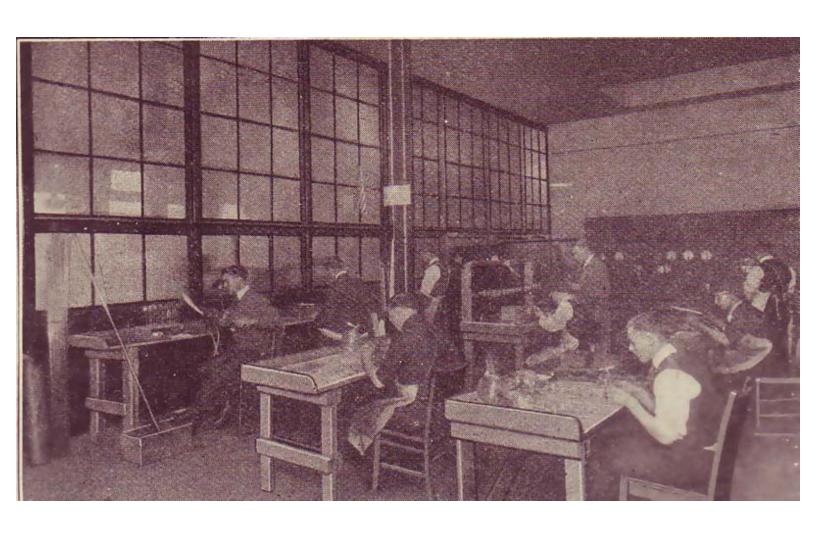


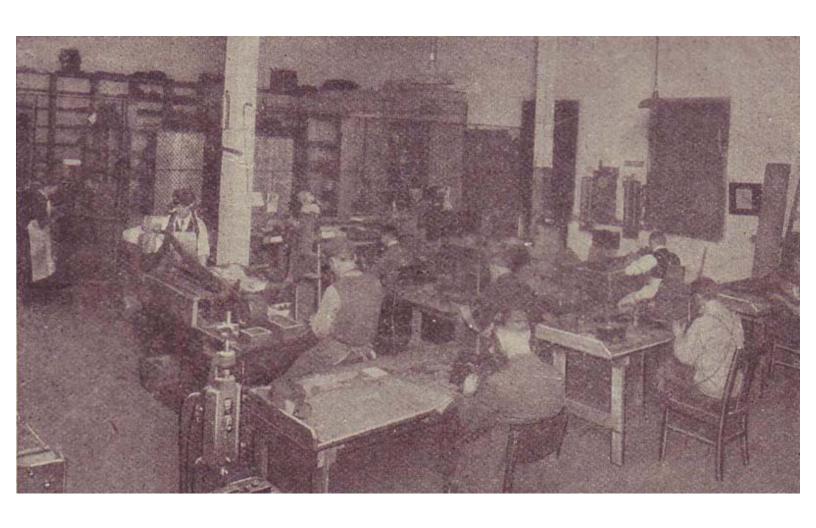










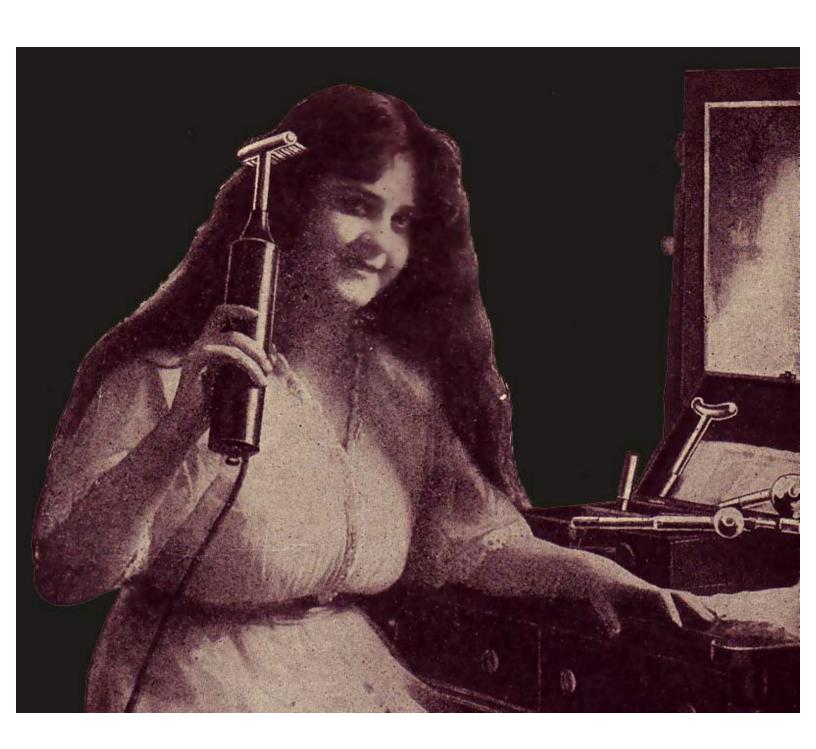




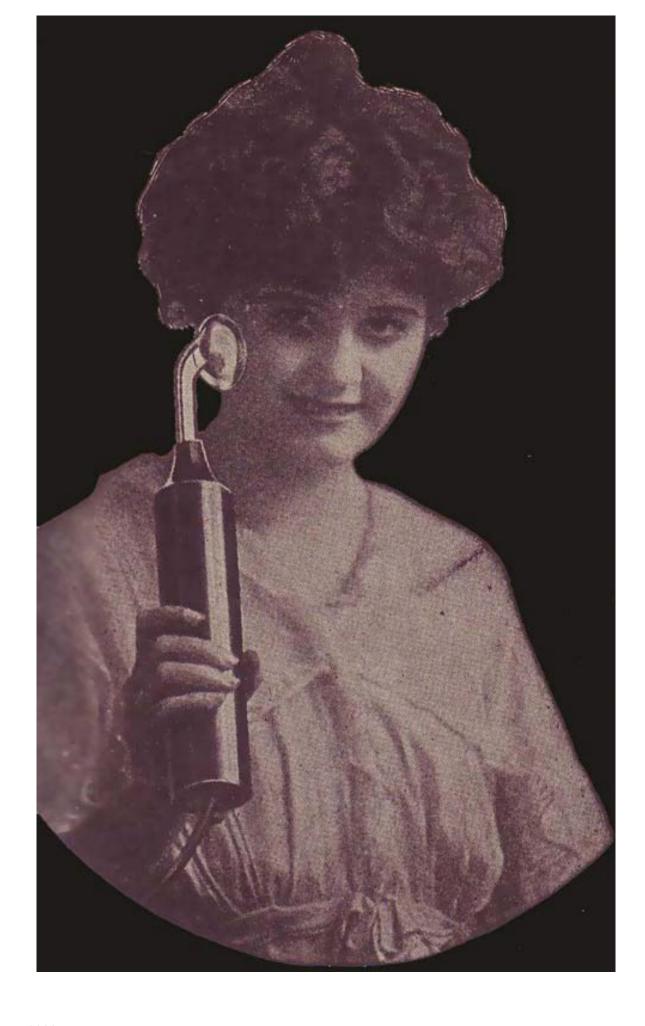


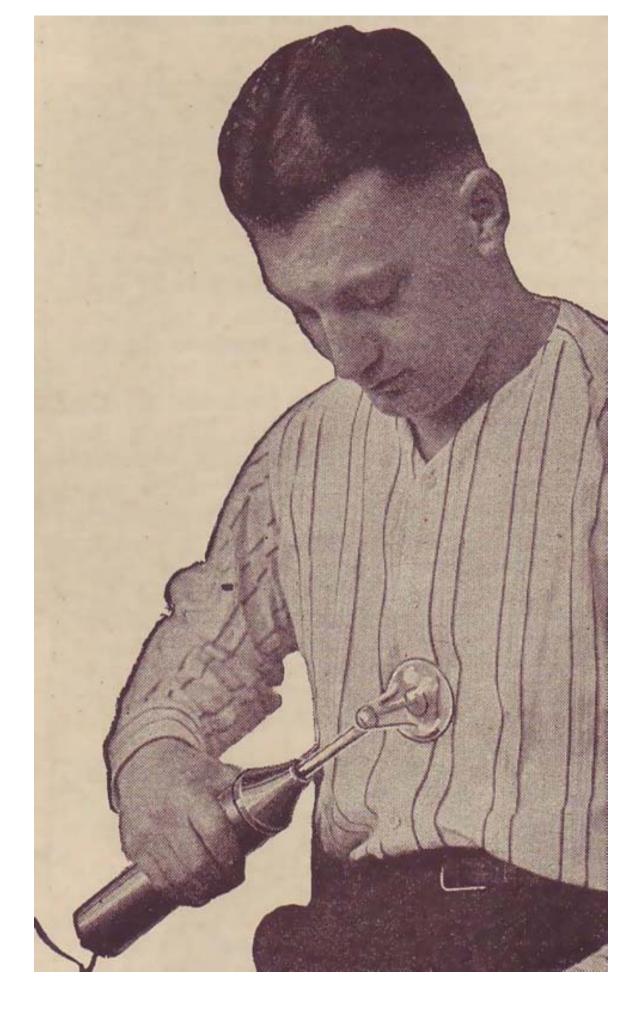






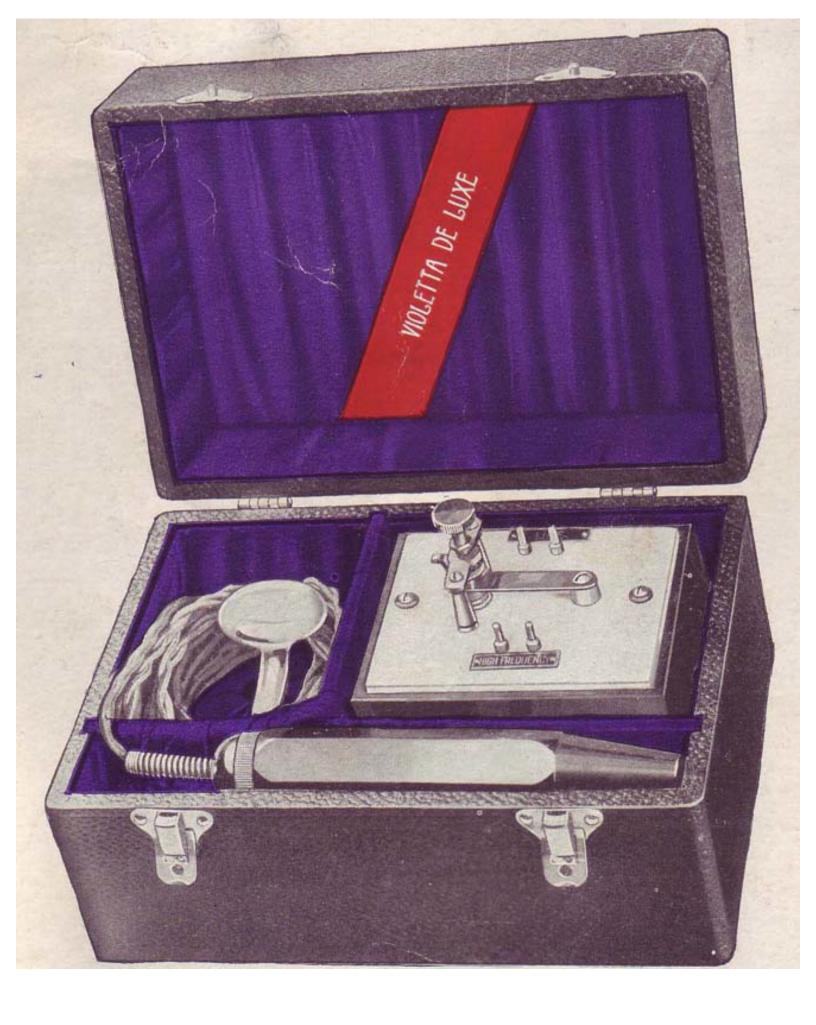


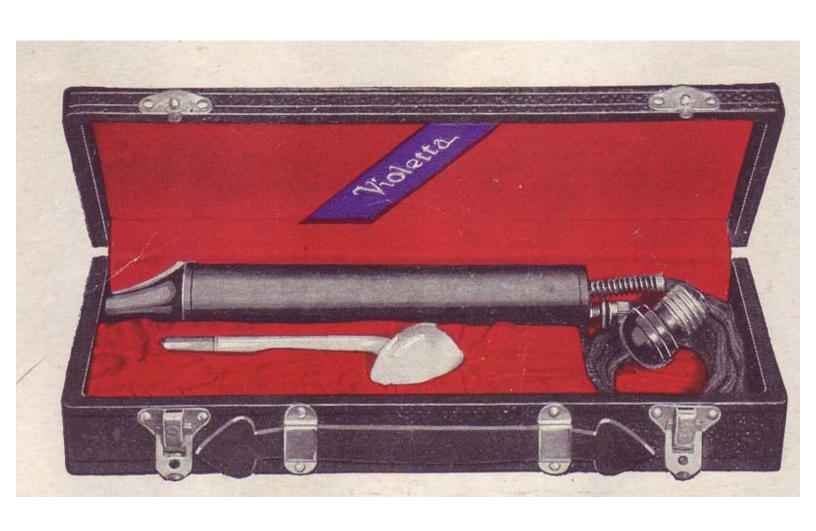










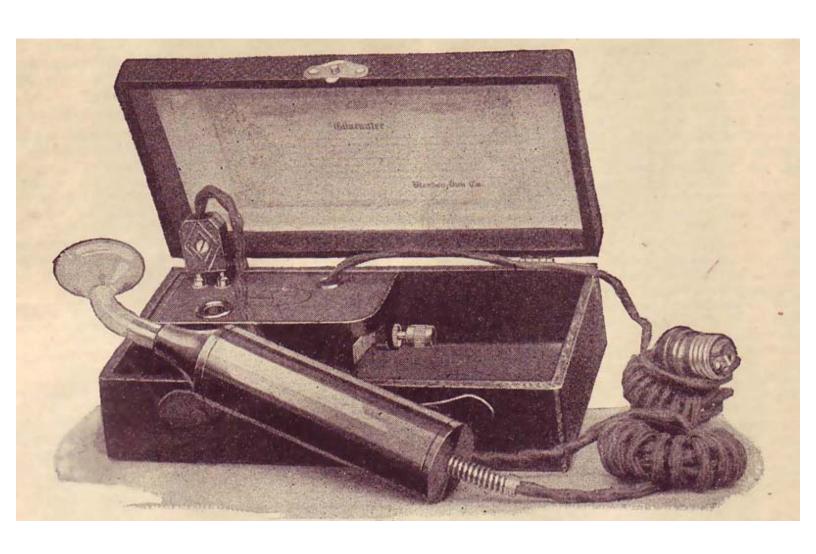


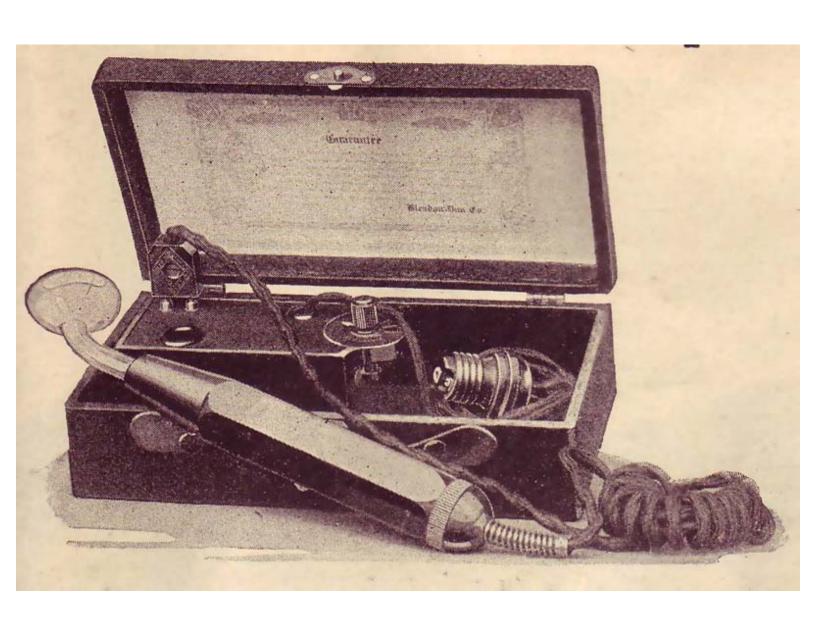






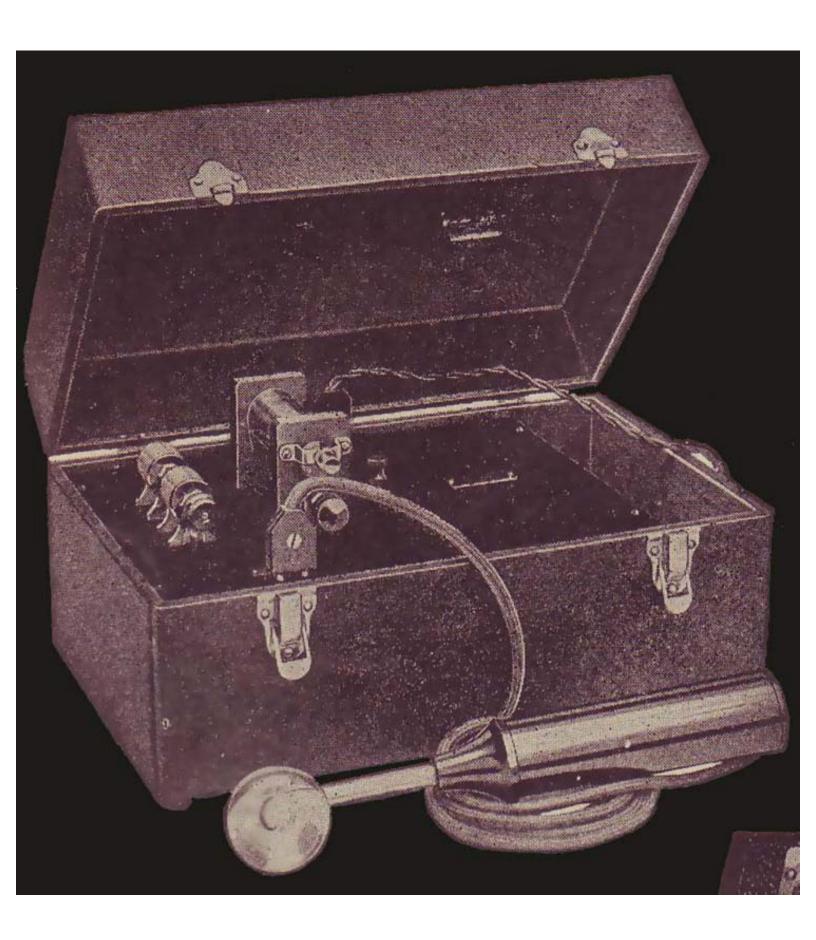


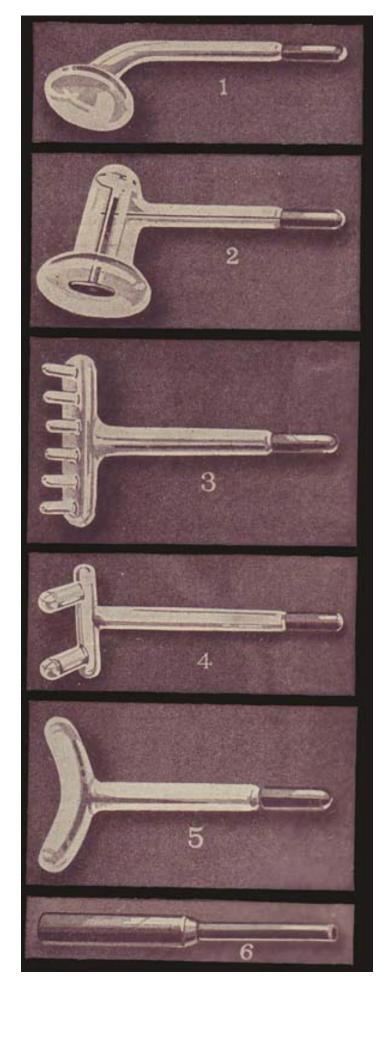


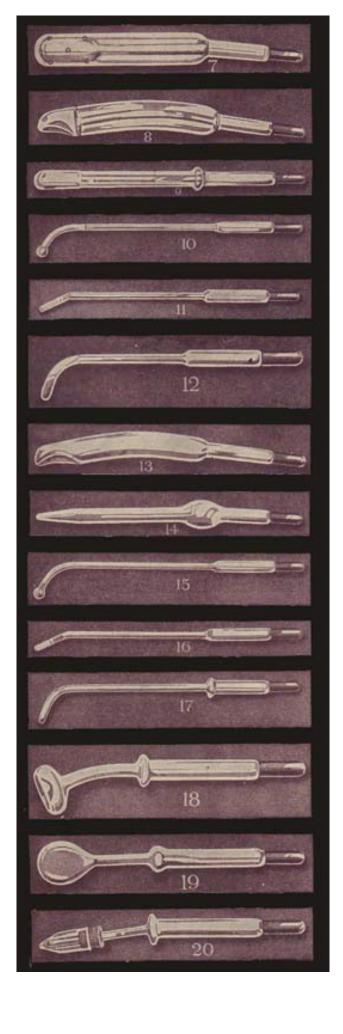


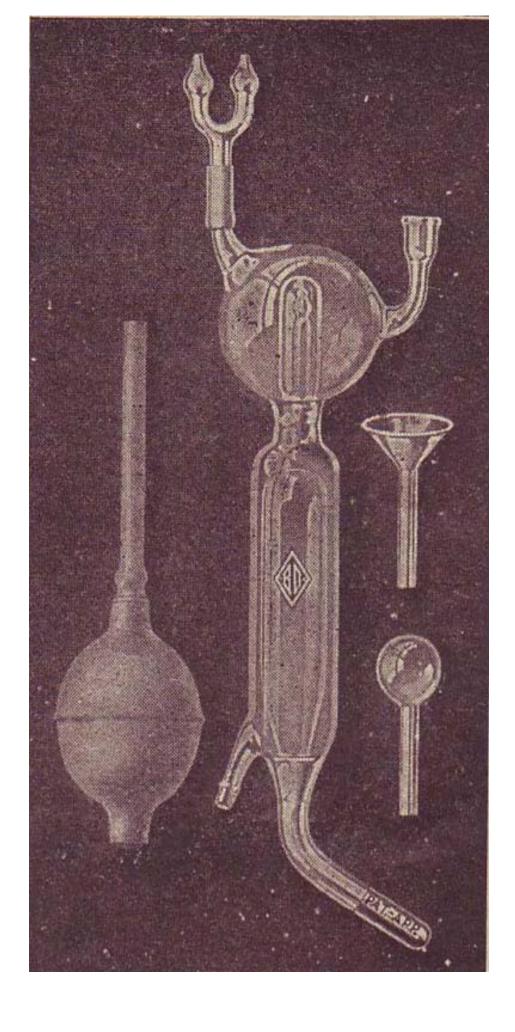








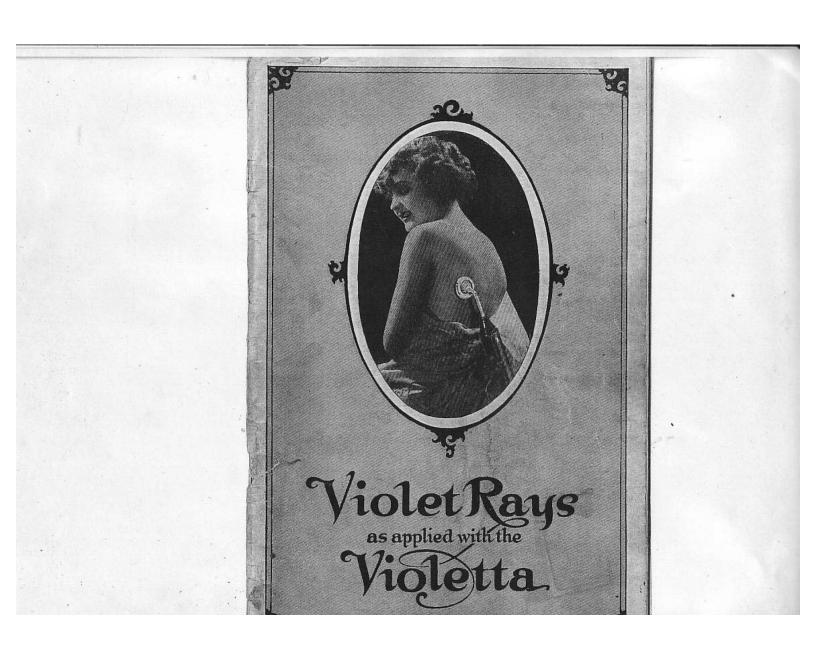














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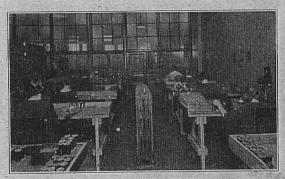
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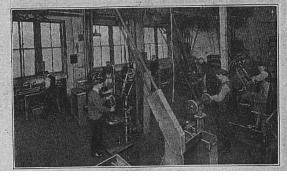
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New, Startling Development of Electricity

PERHAPS: the strangest force in modern science is electricity. No one has yet been able to tell exactly what electricity is—yet none of us can live in this world without realizing its many effects every day.

Electricity has niade possible an era of improvement such as no other great invention has led to. Electricity has given us the incandescent light, without which we might still be burning oil. Electricity has made possible street cars, without which we might still find it necessary to use bicycles or horse-drawn vehicles. Electricity has made possible the use of high-speed auto-mobiles and aeroplanes. The farmer, the miner, and the builder explode dynamite with an electric spark. Machinery is operated everywhere by electricity. Elec-tricity made it possible for us to talk through a thin wire from coast to coast. Electricity made it possible for us to talk to a ship in the middle of the ocean without the use of wires. Electricity made it possible for us to send dots and dashes through telegraph wires. And so electricity affects us in ways we little dream of as we go about finding the source of, or the reason for electricity. The greatest minds in the world have been applied to the development of the effect of electricity.



The wonders of electricity have never been traced to their source. It is a mysterious, magical power that is being developed in some new way every year. What more natural then, that this mysterious power should be applied to the field of medicine? Someone found that a mild current of electricity running through the body had a curative effect. That was

the starting point from which improvements were made.

With the perfection of the small storage battery came little machines with stored electricity which could be drawn upon as the owner desired. Then came electric vibrating machines. These devices, while crude. made use of electricity as a curative agent. But the real value of electricity in the cure of disease

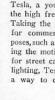


was not discovered until the perfection of the X-ray machine. No one needs to be told how the X-ray has been used in the treatment of skin and internal disorders, even extending to the treatment of cancer. No one needs to be told how the X-ray machine has been used in searching through the flesh for hidden objects. No one needs to be told how fractured bones are set through the aid of the X-ray.

The Discovery of Violet Rays

Perhaps the most remarkable development of electricity as applied to modern medical usage, is that of the Violet Ray machine, or as it is known technically, the High Frequency Generator. It fell to Nikola Tesla, a young Slav scientist, to discover the high frequency current, or Violet Ray. Taking the primary current which is used for commercial pur-







GLASS BLOWING DEPT.

into high frequency discharges. In simpler words, he diffused the heavy stream of current into a discharge of mist, like the ascending mist which hovers over Niagara when the mass of water that rushes over the falls strikes the rocks below. If you were struck by the full force of the rushing, crashing water of Niagara, it would kill you. But the light mist would only be an invigorating spray. And that is what Tesla done with electricity. He has so wonderfully divided its force with millions of tiny harmless units, that Violet Rays can be applied to even a mouse without the slightest harm. Indeed, babies are often given Violet Ray treatments because of the amazing curative value.

Until the discovery of the High-Frequency Current and its development by Tesla and D'Arsonval the wonderful results in the use of electricity for medical purposes obtained by the so-called faradic and galvanic currents at the cost of severe pain and muscular contraction on the part of the patient. However with the perfection of the HIGH-FREOUENCY GENERATOR this very beneficial form of treatment can now be taken with absolutely no pain.

Phenomena Produced by Violet-Rays

1. The High-Frequency Current is unipolar. That is, it does not require a com-plete circuit. From the attachments or electrodes you can readily see the violet color reaching out and flowing into space. It is capable of traversing long distances as ether waves as in wireless telegraphy and telephony.

2. Glass does not insulate the High-Frequency Current as it does ordinary

electricity. You can see that it easily passes thru the glass electrodes which are used with the VIO-LETTA. It will even penetrate a piece of plate-glass two

3. The High-Frequency Current generates enormous quantities of Ozone during its flow. The actions and benefits of this wonderful health-giving element will be described later.

 It is possible to excite and light up any glass electrode from the current passing thru the body during a VIOLETTA treatment. This can be easily demonstrated by holding in the hand any electrode, preferably the metal electrode No. 6, when the machine is in operation. Another electrode,



Violet Rays have a moothing effect upon the entire nerve system.

when held by another person, will light up or become excited even when held a foot or so away. This demonstrates conclusively that the beneficial High-Frequency Current not only permeates every cell in the body but emanates from it.

5. The High-Frequency Current produces a "cellular massage." The contractile effect is expended upon the individual cells making up the tissues, instead of on individual muscles. This is called "cellular massage," and it is one important reason why the

High-Frequency Current produces such a marked effect on nutrition and general health. Cellular massage is more etrating and much more beneficial than muscular massage as produced by mechanical vibration

No Shock, No Pain Above all, the



VIOLETTA RAYS

treatment. The absense of pain due to the inability of the sensory nerves to compre-

strangest phenom-

ena is the complete

absence of pain of

any sort during a

VIOLET RAY

Violet Rays are harmless-even to infants. There is no shock or pain. hend the very rapid vibrations produced by the High-Frequency Current, just as we have vibrations that cannot be recognized by the auditory nerves as sound, or by the eyes as light.

Discard the crude idea that "shocks" have the slightest relation to the medicinal action of \$ electricity.

"Shocks" of any Violet Rays are nature are impossible with the VIO-

LETTA and it can be used with the utmost safety on infants as well as adults.

The capabilities and energy manifest in the above phenomena have their most useful application in the treatment of diseases in which the nutrition of the body needs to be improved, the nervous system reinvigorated, and the physiological functions made to perform their duties. Violetta treatments are exceedingly agreeable and go far to turn electrical treatments into a luxury.

"Your outfit No. 1 received yester y and treatment taken last night did me more good than gallons o iment in the way of relieving im." —Claude A. Rankin, Murfreesboro, Arkansas.

The normal resisting power of the health tissues of the body to exposure, the wear and tear of work, and the influences which cause disease is called "Tissue Resistance," When "tissue resistance" is at the normal value which we call par, the organs and fluids of the body are proof against many diseases that attack others, and will heal very quickly if injured or otherwise sick.

"Tissue Resistance" and "Cellular

Massage

One of the marked characteristics of a reduced state of normal resistance in the tissues is the increased liability of the individual to suffer from slight exposure, to take cold easily, to become fatigued easily and to lack the vital energy of the sound

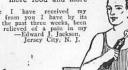
If the standard of normal tissue resistance is restored by prompt treatment the acute disease is quickly overcome by the energies of nature. If it is not restored, the disease tends to become chronic. In order to cure (eradicate from the system) many diseases, it is merely necessary to build up the tissue resistance, then nature will do the rest.

In order to keep tissue resistance up to par, it is necessary to keep the cells of the tissues in a tonic state. This is done by the cellular massage of VIOLET RAYS. Deviation from normal nutrition reduces the toughness of the cells and makes them more susceptible to the enemies which are always on the alert to attack the human body.

There is no better action than that of the VIOLETTA High-Frequency Current in energizing the impaired power of nutrition; and in promoting an increased capacity of the cellular tissues to

take up more oxygen. more food and more







For building health and strength there is nothing like Violet Rays. It permeates every cell of the entire human organism.

Either Stimulation or Sedation

The VIOLETTA can be used both as a stimulant to increase circulation and as a sedative for constitutional effects.

Stimulation-By holding the electrode a short distance away from the part to be treated, small stimulating sparks are pro-

duced. The stimulating action of the VIOLETTA is deeper, longer lasting and more beneficial than any drugs or drinks.

They are not followed by a reaction; they create no habits; they are wholly beneficial without any drawbacks whatsoever. This property of stimulation makes the VIO-LETTA invaluable in the treatment of Rheumatism, Lumbago, Neuritis, Skin Diseases, or wherever circulation is desired. This treatment can be given without removing the clothing.

Sedation-This is produced by holding any electrode in one hand or in contact with any part of the body. This treatment is very pleasant and highly beneficial; the tranquillizing and refreshing properties of the Violetta sedation are indispensable in the treatment of Neurasthenia or any nervous ailments.

What Violet Rays Accomplish

When daily treatments are given with the VIOLETTA, the following effects have been observed:

Return of sleep.

Increase of strength and vital energy,

Increase in cheerfulness and power for

Improvement in appetite, digestion, etc.

Increase of blood supply to point of application.

General increase of local nutrition and progressive improvement in the general

Increase of secretions.

Soothing effect on the nervous system.

Increase of oxygen in the blood. (Ozone being driven directly thru the skin into the tissues, accomplishing an "ozonization" of the blood.)



few minutes' application of Violet Rays to the center of pain gives almost instant relief.

Headaches

A headache is a symptom of some local or constitutional derangement and not a distinct disease. Few drugs are directly curative and some are paralyzers of the heart and some destroy the red blood cor-puscles. The coal-tar "headache powders" are doing much to undermine the health of those who take to them frequently.

When High-Frequency removes pain it also builds up the forces of nutrition and general health. The most common use of the VIOLETTA is the removal of headache, and in such a way as to leave the system normal and not "doped". Longlasting relief, is the rule, but some form of pain return, and for these regular and persistent treatment is required.

persistent treatment is required.

The resources of the VIOLETTA are supreme in the treatment of almost all forms and intensities of head pains, as is shown by this testimonial from W. C. Pinchin, 1966 Valentine Ave., New York City; who writes:

"You have not a customer on your books who is more enthusiastic regarding its beneficial effect upon nearly all the almoents that flesh is heir to. If it could be introduced into all families, numberless doctors' bills could be avoided. I have found it beneficial in Kheumatism, Gout, Stomach

Trouble, Intestinal Derangement, Sore Throat, Coughs, and particularly so in Neuralgic Pains, and Headaches. In fact there is hardly a pain of the human frame but what it will alleviate if not cure."

Headaches—(Extract from Dr. Eberharts Manual of High Processing South

harts Manual of High-Frequency Cur-rents.) Pages 228-229-230.

"Frontal or congestive headaches are relieved by passing the vacuum tube or electrode back and forth over the seat of pain.

"Keep the tube in loose contact and prolong the treatment until relief takes place which will usually be about five minutes.

"The diagram outlines the areas where headaches occur. This will be useful in suggesting the probable line of treatment.



Showing areas where head-aches occur.
"Headaches at A or B are congestive or frontal. At A they may come from errors in refraction; frontal sinus disease or nasal disease. Stomach diseases also frequently cause pain at A. Constipation A-B. Decay of front teeth A-B. Anemia, endometritis, bladder disease, C. Middle ear disease, throat disease, eye disease, decayed teeth, D-E. Womb disease, spinal irritation, nervousness, E.Ovarian reflex pains

usually at C and E. Neurasthenic headaches involve the back

of the neck."

in Rheumatism, Gout, Stomach
"I suffer periodically from migraine (sick headaches) and have found the Violetta is the only
thing that will give me any relief. It is also
splendid for scalp treatment. I am going to
England in a few weeks and since I have beheited
to all the scale of the scale of the scale of the scale
a battery where I am going." The Bout commercial
current where I am going.
—Mrs. E. W. MacQueen, Winnipeg, Canada.

Rheumatism and Uric Acid

There are two kinds of rheumatismmuscular and articular. Muscular rheumatism affects certain muscles and is called by special names such as lumbago, torticollis, etc. Articular rheumatism involves the joints and is also divided into several kinds

-acute inflammatory, chronic arthritis, etc. Nothing in medical therapeutics is more certain than the absolute relief to all forms of muscular rheumatism which can be decisively treated by the VIOLETTA. Often the stiffness and pain from a new lumbago is banished in five or ten minutes. In a severe chronic case the first relief takes longest, and the second and third treatments take less time. Compared with other methods the curative effects of the VIO-LETTA treatments are obtained with exceeding quickness.

Articular rheumatism is not a primary disease of the joints, but is the effect upon them of a condition when the general functions of combustion and elimination are imperfectly carried on. In the whole range of difficult diseases few can be more greatly improved than can articular rheumatism if in bad cases time is allowed. The whole state of the body calls for elimination and nutrition and for these actions no agent equals High-Frequency. No other agent is so safe and sure a pain reliever. No other agent can so well tone up the faulty functions and reduce the circulation of irritant products to a minimum. No other agent can do so much to restore the impaired energy of muscles.

The chief contributing cause of an exess of uric acid is over-eating with too little muscular exercise to burn up the amount of food. The nutritional dis-turbance which lies at the base of "uric acid" calls unmistakably for High-Fre-

quency treatments, which is the only genuinely curative remedy. There are drug palliatives but no decisive drug cures.



Rheumatism, no matter of how long standing is relieved quickly through the daily ap-plication of Violet Rays.

Prof. Apostoli and Prof. D'Arsonval have demonstrated and many others have confirmed the profound effect of High-Frequency upon nutrition, increasing the elimination of urea, carbonic acid, and water, by from 40% to 50% and by reducing to a corresponding amount the uric acid in the system.

The consumption of oxygen is increased by means of the Ozone generator and the products of incomplete combustion are diminished. It is certainly better to dispose of uric acid by oxydizing to urea, than to use solvents which do not lessen its production and which only palliate the evil. The trouble with an alkali is that the acid reappears next time about the same as before.

With Violet-Ray treatment rheumatism of any form will gradually disappear and





VIOLETTA RAYS

Lumbago and pains in the back are removed quickly by Violet Rays treatment.

the improved nutrition will finally correct

the fault at the fountain-head.

Dr. Cora M. Franson, Eau Claire, Wis., tells how she cured a patient of rheumatism with the Violetta.

Violetta:

"In da call to see an old lady 72 years old,
who hadn't walked for one year. I gave her
twenty treatments with just the Violetta and now
alse gets up and wasks around as well as ever. Sie
was a victim of rheumatism. All the swelling left
after one week."

was a victim of rheumatism. All the swelling left after one week."

And here are a number of other letters which prove the values of the Violetta Violet Ray machine in cases of rheumatism. Read them all. writes:

I have found the High-Frequency Generator very efficient in Neuralgia, Lumbago, and Rheumatism of the joints."

Handy Crump, Piqua, Ohio, writes:
"I suffered two years with nervous trouble and rheumatism, and was all but helpless. I finally "It simply has done wonders for me and my family and I would not be without it at any cost. "Many traveling men who stop at my hotel, knowing my condition for two years and more, have asked me what brought me of an interest and in the condition of the world in the Violetts."

Claude Tiff, Seattle, Wash, writes.

a up, starts to our testing the control of the cont

free from this pain until yesterday after using the Violetta."

the Violetta."

Harry Pickhart, New York, N. Y., writes:

"I had a long siege of rheumatism. I could hardly walk at times, and after taking a treatment I was helped a great deal and could walk comfortably. After a few treatments I was entirely after a few treatments I was entirely treatments I awa entirely treatments for neuritis with great success.

treatments for neuritis with great success."

One of the most remarkable cases is mentioned by a Michigan physician in an article contributed of the contributed of t

Lumbago

Sufferers from the excruciating pains of lumbago can get relief from Wiolet Ray Treatment, as indicated by B. F. McGreevy,

of Billings, Mont., who writes:
"I find the Violetta Generator especially effective
in lumbago." And James A. Frame of Scattle, Wash., who

"I have purchased one of your instruments for the treatment of Lumbago and find it very beneficial."

the treatment of Linnago and had it very beneficial. And read this interesting letter from L. E. Sisler of Detroit, Mich.:

Sisler of Detroit, Mich.: a pretty severe attack of lumbago and a representative of the Union Paper & Twine Co., of this city dropped into the office and told me about your Violetta, gave me the name of a gentleman who had one and who hought if to use when he had an attack of lumbago. They further advised me that it worked like a charm. I have an attack of lumbago any herewith enclosing you my cheek and wish you would send me one of your outfits."

Gout

Gout is a nutritional disorder with an excessive formation of uric acid, characterized by the gradual deposition of urate of soda in and about the joints.

There is no masseur endowed by training





Sciatica and Neuralgia

Neuralgia means nerve pain and in its simplest form this pain is the "cry of the nerve for food." This implies that in all cases of neuralgia the nutrition is below par. This again means that the High-Frequency Current is the most active agent in feeding the filaments and cells.

Sciatica is a form of neuralgia with pain below the neck. The person who has sciatica wants relief, and wants it urgently and can usually get it from the VIO-LETTA. When it is used the pain of the irritable nerve ceases to be felt, the effect is tonic and the limb gains strength; and in from five to fifteen minutes the patient is usually free from suffering and able to walk with energy and comfort for the time being. Relief from the first treatment may last but a short time, after which the pains return but with a lessening severity. Relief from the second treatment lasts longer and so on until relief is permanent.

Read the testimony of Frank Borzone, Seattle, Wash.:

"I purchased the VIOLETTA for my wife, who was suffering from an acute attack of Sciatica. From the very first treatment it induced peaceful rest and she is entirely well now."

And M. M. McCabe of Duluth, Minn., writes:

"I will state that we have found the Violetta has been useful in cases of neuralgia of the face and neck and a member of my family having considerable trouble in this respect with one treatment of this Violetta we find removes the trouble, and I feel it is worth while even for this alone, and I have found that it is useful in cases of slight attacks of rheumatism in the joints, etc."

Dr. Bert H. Rice of Vinton, Iowa, has this to say:

"I have good results with the Violetta in all cases of neuralgia. Almost instant relief in Facial Neuralgia. One case of 5th nerve neuralgia of fifteen years' standing, and had tried everything in the medical and surgical line, I was able to give relief at once."





The spinal electrode No. 4 is particularly adapted to spinal treatments with the Violetta.

Nervous Troubles

All Americans have "nerves." Some even style the nervous tendency "Americanitis." It is caused by worry, business suspense, lack of regular sleep, impaired nutrition, excitement, too hurried eating, etc. The symptoms are muscular achings, pains, headaches, sleeplessness, dyspepsia, and nervous irritability. Your appetite is not so healthy, your back aches, you have dizzy spells when you stoop, your food does not digest, you are listless, in fact you are breaking down.

When the nervous system is below par or out of order, there is a derangement of nervous functions. Strictly speaking neurasthenia is not a definite disease but a condition, and this condition is removed by VIOLETTA treatments. It may be fairly said that no case of functional nervous disease of whatever variety is properly treated unless the administration of High-Frequency is prescribed. Whenever any person feels below par, the tonic action of Violet Rays should be sought.

There is no need of a rest cure. People who think they are "too nervous already and that electrical treatments will make

them more nervous," are as much in error as was the boy who broke his leg dodging his own shadow.

VIOLETTA RAYS

The tranquillizing nerve food par excellence is Violetta Violet Rays. With the



For a southing Violet Ray nerves, and most treatment electrode No. 6 often the patient is used with great success. goes to sleep during a treatment. The tension relaxes, worries take wings, the "blues" depart, nature is composed and strengthened,—the patient gradually gets well.

Says Dr. Monell in his book:

"One of the most striking effects of the high frequency current, is its action on the sympathetic nervous system. Applications of the vacuum electrode over the solar plexus will almost immediately relieve and later permanently cure, cases of long standing nervous dyspepsia, hepatic torpor, constipation, renal insufficiency, and finally, all conditions due to lack of vaco-motor stimulation."

But perhaps you would like to know what users of the Violetta say. Well, here is a letter from Mrs. J. R. Covert, of Buffalo, N. Y.:

"I think your Violet Bay instrument is a wonderful thing. I have dectored for seven years for some and the seven years for seven years for the time. I have now had the Violetta for six weeks and as no improved and would not be without it at any cost. I have caused two of my friends to huy one."

And Henry Miller of Savannah, Ga., writes:

"My health was completely gone due to a nervous breakdown, and your machine has helped me wonderfully."

And here are two letters from physicians:

"It affords me great pleasure to say that it does even more than you warrant it to do; I have used it on a case of Neuritis of thirteen years' standing and it has proven most successful."—Dr. E. E. McCormick, Buffalo, N. Y. Paralysis

Paralysis is not a disease, but merely a symptom of certain forms of injury which causes the partial or complete loss of motor function of the muscle fibre. Violet Rays are the most important remedy known for the treatment of paralysis. Some good results may be produced by a very few treatments, while more obstinate cases may require several months. Ten minutes of VIOLETTA treatments four or five times a week is worth ten gallons of the best liniment. Relief from stiffness and discomfort begins at once and normal functions return in a short time.

The paralysis of infants resulting from pressure or accident is nearly always curable by a little persistance. The youngest and tenderest infant can be treated without pain or disturbance.

K. L. Allen, D. C., 205 Boone National Bldg., Boone, Iowa, writes:

"I have had very good results with the application of Violet Rays in cases of Paralysis, Rheumatism and Neuritis, and think it a very great help."

R. M. Eubanks of East St. Louis, Ill., vrites:

"I was injured the 12th day of last April and lost the use of my left arm. I could not pick up a paper. The Violetta is the only thing which helped me and has done wonders. When I came from the hospital I was very nervous and had insomnia so bad I could not rest. Now I can sleep like a log. I can kill a cold at once as the Ozone destroys all the poison germs. I can now use my arm freely and would not sell my machine at any price if I could not get another."





Insomnia

Adequate and refreshing sleep is necessary to good health. Inability to sleep is a very troublesome symptom and one which no one should neglect. There is no substitute for sleep and the act of medicine cannot supply its lack. Dependency on drugs is dangerous, depressing, and has too often been fatal.

often been fatal.

The power of the sedative action of the VIOLETTA tends to tranquilize the central nervous system, equalize the circulation and restore the capacity to rest. The High-Frequency Current is Nature's true remedy and the VIOLETTA is indispensable because it at once treats the disease and the patient. It attacks the symptom and imparts a constitutional benefit at the same time.

time.

R. M. Eubanks, of East St. Louis, Ill., tells how Violet Rays helped him:

Alter leaving the hospital following treatment for a broken arm I was so nervous that I suffered from insomnia. Violet Ray treatment enabled me to sleep like a log."

And Dr. Ellen A. Richards of Streator, Ill., writes:

writes:
"It has helped to quiet nerves and bring
satisfied sleep in very restless patients."
The experience of M. S. Shanks of Carterwille,
lows, is interesting:
lows, is interesting:
good results. I got up only twice hast night, and
got six, hours peaceful sleep. Have had but little
pain since."

Dr. S. H. Monell, of New York, in his authoritative book on Violet Rays, records the following:

"In case of a man aged 60 who had suffered for some months from insomnia and slept only an hour at night, twelve treatments administered by Dr. Gardiner enabled him to sleep four to five hours. In another case of a man aged 65, the insomnia was left as a sequel to pneumonia and twelve treatments produced a complete and lasting cure."

Another Scottish physician, Dr. W. F. Somerville, of Glasgow, has this to say regarding the general treatment of insomnia by Violet Rays:

"The sleep which electricity induces or lets nature induce is not only sound but decidedly refreshing. And still further, not only do the high frequency currents promote normal sleep, but, as we who employ them are well aware, they improve the tone of the system to such an extent that our patients are better fitted to resist and to overcome the evil influence of professional, business, educational, domestic, or other cares or anxieties."

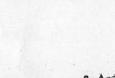


The Production of Ozone with Violet Rays

VIOLETTA RAYS

Ozone increases the oxygenation of the blood and tissues and also increases the number of red blood corpuscles. Germs and toxins cannot exist in the presence of Ozone and are completely destroyed. Ozone is the most active oxydizing agent known. Inhalations of Ozone are beneficial in all

diseases in the same manner as pure air is desirable, but it is particularly beneficial in all diseases of the Respiratory Organs,





including Tuberculosis, Infectious Diseases, and all conditions where there is imperfect oxidation and where tissue resistance is below par. An Ozone spray has been demonstrated to be healing in all forms of ulcers.

The following is taken from reports by Drs. L'Abbe and Oudin before the Paris congress:

"We investigated the influence of ozone on nutrition in general, and especially in anemia or persons physically reduced. When the percentage of oxyhemoglobin is below normal (say 9 or 10%) inhalations of ozone for a quarter of an hour increases it by 1%. The increase temporarily at first, becomes permanent after a number of treatments, and one can affirm that at the end of two or three weeks, the patient has reached a normal figure.

This is necessarily accompanied, in the case of anemic patients by more energetic oxidation, more rapid combustion, which calls for more rapid renewal or nutritive materials (increased metabolism) and from this there speedily arises an increase in appetite which in some patients take the demand for food such as has been heretofore unknown to them, with the return of strength, disappearance of complications; in short, restoration to health."

J. O. Van Winkle of Salem, Ore., writes:
"Have treated one case with the Ozone Generator and my patient said that it did him more good than any medicines I had given him."

Catarrh

There are probably more sufferers from this affliction than from any other complaint we know of. It primarily affects the nasal organs, and, if neglected extends to

the front cavities of the head, then to the throat, then to the tubes leading to the ears, and, passing downward threatens the patient with confirmed pulmonary disease. Its symptoms are identical with those of a common cold in the head, of which it often appears to be a chronic form. The flow of discharge from the nose or head causes a continual hawking and spitting, making the afflicted person a most disagreeable companion.

In the trouble itself as well as in the debilitated condition of the system which so often invites it, VIOLETTA treatments will be found to give surprisingly quick results. The ozone is inhaled thru the nostrils. There is an improvement of circulation thru the mucous membranes of the head and throat, the glands are strengthened and it enables the general system to throw off the evil results. The blood supply is purified by ozone inhalations, thereby toning up the entire system at the same time.

Asthma

Hundreds of people are suffering agonies from asthma. Having tried all the usual remedies they have given up hope of relief. Violet Rays have proved effective in Asthma as in so many other ailments. Read the experience of Granville Holden, 86 Eagle Street, North Adams, Mass.:

"I use it for Asthma and pains in the chest from coughing and I get wonderful relief and would not part with it for any money."

Hay-Fever

We quote Dr. Monell, the great authority on this subject:

"The general public has too long been misled by the tradition that Hay-Fever is incurable, for few diseases are more easily remedied. There are three conditions all present in one individual at the same time to make an attack of Hay-Fever possible,

"I. We must first have a patient who is neurotic—whose nervous system is habitually below par. The ordinary person may not realize that he or she is 'neurotic' but the state is generally recognized by physi-



VIOLETTA RAYS

For all chest and bronchial affections, local applications of Violet Rays have proven beneficial in thousands of cases.

cians. In other respects the person may be well enough,

"2. The other element is the dilated condition of the fine blood vessels in diseased mucous tissues of the nasal chambers.

"3. And still another, is some irritating substance carried as a dust in the atmosphere, which may be the pollen of plants or a dozen other things."

If the first two factors are removed the third factor is eliminated. Can the High-Frequency Current remove the first two causes? If the reader has read the foregoing entitled "Tissue Resistance and Cellular Massage," this question will be so plainly answered that the helpless feeling of Hay-Fever is more of a fashion than a necessity.

Along with the local treatment the necessary treatment of the general nervous system is carried on, so that when the patient is free from the functional derangement which causes irritation to set up Hay-Fever, the patient-will thereafter remain well.

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One other feature. It is not necessary to wait until the season of attack in order to commence treatment. It is far better to begin before the attack appears, for the action of the VIOLETTA upon the general nervous system and local conditions is independent of season.

. If the first two conditions mentioned above are corrected before Hay-Fever time, the attack will not develop, for healthy tissues are not irritated by the pollens in the air.

Influenza

No longer is influenza regarded as a minor complaint amounting to little more than a bad cold. The long list of victims who succumb to it annually has established the fact that influenza is a dangerous disease requiring careful treatment. The superintendent of schools at Bird City, Kansas, E. D. MacDougall, writes:

"I am satisfied my ozone generator (The VIO-LETTA) has knocked the "lu" on several occasions when I felt I was coming down with it. It would be a Godsend if the schools could successfully use coone generators at this time."

Now read what R. H. Pickens, Superintendent Southern Public Utilities Company, Clemmons, N. C., says:

"It might interest you to know that I have found the Violetta invaluable in the treatment of influenza."

Goitre

In Goitre, excellent results have been recorded. The High-Frequency Current has a tendency to

eliminate and absorb any unnecessary or waste tissues.







Electrode No. 5 is made especially for the treat-ment of Goitre and produces amazing results.

he has cured at least 100 cases of Goitre by the use of Violet Rays alone, and Drs. Collier & Collier, of Clarinda, Iowa, write:

"For the short time we have used the VIO-LETTA, we are well pleased with results. Our greatest henefit obtained is with the use in doctor-ing Goiter. In every case where we have used it, we have secured great benefit."

Mrs. Austin Decker, Spokane, Wash., writes: "I have been successful in removing a goitre."

Dr. R. W. Adams, 6 East Lake Street, Minn-capolis, Minn., writes:

"I am relying on it especially in the treatment of Goire which I have found the VIOLETTA gives wenderful and speedy results."



Life is an imperfect thing if the sense of hearing has been lost or partially lost. Deafness is a constant source of embarrassment to those afflicted with it and is besides a great handicap to success.

That he has had "wonderful success" in the treatment of partial deafness is the state-ment of Dr. J. Charles

Brydges, 711 East 37th Street, Chicago.

"I can say to you that I am having wonderful sufferent with your feathers with your feet on the partial Deafness with your feet on the partial Deafness with your partial Deafness with your partial Deafness with your feet on the partial Deafness and the word partial part

"I need the Violetta for my husband," writes Mrs. Nellie Goodrich, of Balti-more, Md. "He had spinal meningttis caused by a shock to his nervous system which left him totally deaf. He is getting along for Violet Rays have done him a but of good."



Vocal Organs

The accompanying illustration shows the method of treatment of the throat or vocal organs in cases of congestion, hoarseness, loss of voice or inflammatory or painful conditions in all classes of patients, but especially in the throat affections of singers, speakers, actors and victims of acute or chronic colds.

Place No. 9 Electrode in contact and turn on current. Press the electrode deeply in the depression and repeat musical scale. The deeply penetrating current acting upon the muscle fibres and blood vessels, rapidly abates congestion and inflammation, induces a new blood supply, tones up the nervous





VIOLETTA RAYS

The throat is successfully treated with Electrode No. 9 when used in connection with the Violet Ray Machine.

mechanism and produces benefit with remarkable certainty and quickness. In value to singers and speakers it outclasses all treatments directed to the same ends.

Eye Diseases

Eye diseases have been successfully treated with Violet Rays. In a report published by L. Webster Fox, A. M., M. D., Professor of Ophthalmology in the Medico-Chirurgical College of Philadelphia, he "My friend, Dr. Coover, of Denver, first called my attention to his success with high frequency currents in treating a certain class of eye diseases. Following his suggestion, I had my chief of clinics select a variety of eye cases, from blepharitis marginalis (inflammation of the eyelid) to atrophy of the optic nerve for tests. One hundred cases of inflammation of the eyelid were successfully treated." The report goes on to cite other cases of eye trouble which were benefited or cured by Violet Ray treatment.

Mr. Rogers of Buffalo, N.Y., is an exceedingly delighted customer. He tells us as follows: "The Violetta is my most valued possession. It has brought about complete health that I never be-

thought would be regained. It absolutely atted a painful attack of severe lumbago in on to completely bringing back my vision, was seriously impaired by a cataract."

Rogers has been only too pleased to rec-



Eye diseases are treated successfully with the Violetta particularly when used with electrode No. 18.

Lowered Vitality

Illnesses and operations often leave lowered vitality behind them, leaving the body an easy victim to other disorders because the power of resistance is lowered. Violet Rays will pour new life into the body. This has been the experience of E. M. Barnett, D. C., of Meadville, Pa.

If you are painfully thin you will be in-terested in the testimony of Mrs. Nels Johnson, 310 So. Cottage St., Kewanee, Ill.s

"An pleased with results obtained by the use of the VIII I TA I have gained in weight and I feel much better than I did before I received the





Scalp treatments with the Violetta are unusually successful when applied with electrode No. 3.

Scalp Treatments with the Violetta

(Dandruff, Falling Hair, Baldness, Itching Scalp, Etc.)

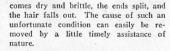
T IS a well known fact that falling hair and baldness are due to the faulty action of the tiny nerves and blood vessels that each and every hair is supplied with. If good, rich blood, laden with the necessary nourishment, does not circulate to the hair, they are literally starved. Bacterial and Parasitic germs get a foothold, causing the

dandruff, the hair falls out, and baldness is the ultimate result.

The VIOLETTA applied to the scalp virtually exercises each and every hair, encouraging it to new life and vitality. It has a direct action on the tiny nerves and blood vessels stimulating them to perform their proper functions of distributing necessary food supply to the hair. Also the Ozone which is generated acts as a germicidal agent and destroys any organism present, making dandruff impossible.

Woman's headgear, from a hygienic standpoint, is more sensible than man's; consequently, women rarely suffer from total loss of hair. Frequently, however, on account of circulatory derangements, her hair loses its natural gloss and vigor and be-





VIOLETTA RAYS

It gives a man poise and self-confidence to have a fresh, healthy appearance and well groomed head of hair.



Front view showing how metal electrode No. 6 is held when indirect scalp treatments are given.

To look really "clean cut" greatly aids him in business as well as in social affairs. A man with a sallow, muddy complexion tho he be clean shaved, does not make as agreeable an impression as the man with a healthy ruddy complexion. A bald head has never added to the appearance or dignity of any man. It is a thoroughly established fact that there is no reason why any man should become bald, or have a sallow, pimply, muddy skin.

Some authorities claim that in no in-

stance are the lifegiving principles of hair growth within the follicle destroyed, and that in most cases of baldness, the hair has only become checked in growth beneath the scalp, the follicle being merely dormantand not dead. In such cases stimulation is necessary

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ulation is necessary and no better medium is obtainable than the use of the VIOLETTA.

It is not claimed that a growth of hair, will be produced in a case of total baldness, but where the life principles are spill present in the follicles a reasonable use of the VIO-LETTA will develop a natural and permanent growth.

A few minutes' use of a VIOLETTA after shaving will remove all soreness of the skin. It produces an agreeable, refreshed feeling, and leaves the skin perfectly smooth and radiating with the color of perfect health.

There are two methods of giving both the scalp and facial treatment: direct and indirect. Direct by passing the electrode back and forth until the whole scalp has been treated; indirect by allowing the patient to hold the electrode in one hand and the instrument in the other. Then by turning the adjusting screw forward to the proper degree of current, the operator is able to draw the current to the scalp by means of the fingers of both hands.

We can frankly state that this is the most successful and scientific treatment for the hair and scalp. It removes every particle of

dandruff and foreign matter, immediately relieves all itching sensation, causes a delightful, restful feeling of the scalp,





lasting results.

COULD NOT BE WITHOUT IT

"Have been using your Violet Ray Machine for some time in my beauty parlor. The beneficial results are simply wonderful, in connection with both facial and scalp work. I simply could not be without it." -Mrs. Carrie Cunningham, 1046 East 43rd Street, Chicago, Ill.

"I have been using your Violetta for some time with good results."

-A. B. Hightshoe, Moravia, Iowa.

AN AID TO BUSINESS

"We have two machines here that have been in constant use for the past year and a half. We find business increasing to such an extent that it is necessary to purchase more outfits to supply the demand."

-The Canadian Barber & Specialty Co., Ltd., Toronto, Ont., Canada

Many cases have been reported of grey hair being restored to original color. To those interested we refer them to Dr. Eberhart's "Manual of High-Frequency," revised edition 1919, pages 223-227.

See pages 30 and 31 for further letters on this subject.

Facial Treatments

(For General Massage, Pimples, Blackheads, Eczema, or Any Skin Disease.)

Few people realize how important it is to give the skin intelligent care and proper Few know how much the health

and general comfort of the body is dependent upon the proper per-formance of the functions of the skin. The skin is

and if used regularly it is sure to give a blood purifying organ and it is vitally necessary to keep it in perfect condition and normally active.

> VIOLETTA treatments not only arouse the circulation on the surface of the but cause a "cellular massage." In this way it reaches the deep inner blood



and lymph vessels that course thru and between the muscles and tissues deep within the body; and right here is its greatest value for these are the ones that feed the surface tissues, and that bring new and lasting life to the skin.

Skin diseases of all kinds are peculiarly susceptible to Violet Rays. A prominent Chicago physician reports notable results in eczema. Many cases of eczema of a dozen years' standing have been cured in ten treatments or so, this physician states. He adds



that with the aid of Violet Rays he has cured catarrh, neurasthenia, rheumatism, gout, tuberculosis and obesity.

VIOLETTA RAYS

A well known actress adds her praise. Trixie Friganza writes:

"Cheerfully will I add my praise for Violetta. Its the heat pain chaser' and 'soother' I've had the curred my brother of neuritis. As for myself I use it for facial treatments and general massage. I cannot say too much for it."



moving surplus fat, and for indigestion No. 2 has proven effective. Also used seated cases where deep penetration is

Acne (Pimples)

Acne (pimples) is terribly disfiguring and causes great embarrassment to those afflicted with it. A person with a pimply skin is suffering under a distinct handicap on account of the repellent effect of the complaint.

H. J. Kobber, 407 South Dearborn St, Chicago, writes: "I used the VIOLETTA instrument for a severe

case of Acne of the face. It helped me consider-ably for the acne is gone."

Read these endorsements from professional men: "Have accomplished some wonderful things with it, especially in skin diseases. You may have report of these if you wish."—Edwin T. Jaynes, M. D., Waterloo, Iowa.

"My Violetta Generator is doing very satisfactory work. I find it especially effective in cataneous (skin) eruptions."—B. F. McGreevy, M. T. D., Billings, Mont.

Obesity

Modern investigation has proven' that obesity is not the result of over-eating of fats and sugars, but the inability of the albuminous elements of the food to be readily oxidized-together with deficient exercise. A

The semi-starvation treatment of obesity is wide of the mark. What is needed is to restore the normal balance of autrition so that the distribution of food to each set of tissues in the body will conform to nature's intention.

Correct the abuses or excesses in any habits and set yourself upon a mixed and healthy diet and then make your tissues distribute the nutrition properly. This can be done by the resources of the VIOLETTA HIGH-FREQUENCY GENERATOR.

Torpid Liver

A large proportion of the ills which afflict mankind are caused by a torpid liver. If your liver is not in good working order you will be constantly ailing, for upon that organ falls many of the most important processes of the body. Violet Ray treat-ment will excite the liver into activity and restore buoyant health.

Dr. J. L. Snavely, 401 Second Ave., Sterling, Ill., wrote us that he had secured excellent results with the Violetta in the treatment of torpid liver.



Extract from the American Journal of "Clinical Medicine."

"Clinical Medicine."

"High frequency for the general practitioner has for many years been a sort of Utopian dream-something which he has looked at from afar, and longed for, but which seemed to be out of his reach. Not alone because of the high cost of high-frequency outfiss—though that is an item, too—but because the very patients upon whom he most detected by the second of t

Extract from "Medical Council."

"The VIOLETTA High-frequency Generator is one of the most compact and at the same time the most efficient high-frequency instrument on the market. The entire mechanism is contained in one piece, making it unnecessary for the deeter to leave his patient to adjust the machine, which may ean be regulated while the treatment is being given. It delivers a current of very high oscillations. It is fully guaranteed and at a very reasonable price. For full information, two handsome charts giving treiningue are furnished by the manufacturers, chicago, Ill."

Extract from editorial section of the "Electrical Record."

"The Bleadon-Dun Co., 11 South Desplaines St., Chicago, is marketing a new type of electrical apparatus called the VIOLETTA. It is small in size and very efficient in operation. It is made for professional as well as for private use, the frequently as the second of th

Extract from editorial from "Popular Science."

"The VIOLETTA shown in the illustration pre-sents many features of interest. The use of the apparatus is particularly indicated in the facial and scaip treatments wherein the value of the High-Frequency Current has been demonstrated many Prequency Current has been demonstrated many and the control of the control of the control of the exceedingly useful for home treatments."

K. L. Allen, D. C., 205 Boone National Bidg., Boone, Iowa, writes: "Have had very good results with the applica-tion of Violet Rays in cases of Paralysis, Rheu-matism and Neuritis, and think it a very great help.

Reprint from the Chicago Journal.

Violet-Ray. Treatments Given in the Home

The Violet-Hay is the greatest force for health and beauty which science has ever produced. A comparatively recent discovery, it has already won the universal indorsement in the medical inforcession.

kas ever produced. A comparatively recent discovery, it has already won that universal inforsement in the medical profession.

At last it brings within everyone's teach the health-giving qualities of electricity. It brings them in a form that is safe, pleasant and benefit all to the highest degree.

The Violet-Raya are produced by the Violetta insfrument and applied by means of glass attachments or electrodes. The electrical discharge may appear to the eye to be a single spark, but in reality is made, usingle spark, but in reality is made a number of successive sparks following the control of the eye to be a single spark, but in reality is made and the eye to be a single spark, but in reality is made a number of successive sparks following may appear to the eye to be a single spark, but in reality is spark following the end of the electricity and the eye of the electricity and the eye of the electricity in the electricity of the electricity of the electricity in the electricity in the electricity in the electricity of the electricity of the electricity of the electricity in the electricity of the body needs to be improved, the electricity of the electric

Extract from "American Hairdresser."

VIOLETTA RAYS

"A New Electric Apparatus— Now with the advent of the VIOLETTA a simple and com-pact apparatus is placed in the hands of the operator, and a powerful curative agent is placed within everyhedy's reach. Won-tained in the use of the VIO-LETTA and many cases of gray hair restored have been reported. The VIOLETTA bids fair to revolutionize the entire profes-sion."

Extract from "Electrical Experimenter."

"One of the smallest practical bigh-frequency machines suitable for either direct or alternating currents, known as the VIO-LETTA, is illustrated herewith. The complete outfit is suitable for use by any one. Owing to the special design of the vibrating interrupter on this device, to the special design of the vibrating interrupter on this device, steady and uniform.

"For those desiring to take Ozone treatment, a glass Ozone generator is furnished at slight extra cost. This instrument generates enormous quantities of Ozone. The treatment is very pleasant and amazing results have been obtained."

Extract from "Electrical World."

"For treating various diseases, invigorating the nervous system and facilitating the performance of physiological functions, a small machine generating energies at high-frequencies has recently been developed by the Blendon-Dun Co., Chicago. The condition of the control of th

Extract from a page article, "Electrical Review."

"An advance in application of High-Frequency currents have of VIOLETTA High-Frequency Generator, a modern scientific instrument which does all the work of the bulk old-type machines. The compact construction of the Violeta equiparticular of the V

"It is really a luxurious electrical treatment. The manufacturers, Bleadon-Dun Co., Chicago, furnishes with each instrument a hooklet on the subject of High-Frequency Violet

Reprint from Washington Herald.

Breathe Mountain Air

IN YOUR OWN HOME—NEW OZONE ATTACHMENT TO VIO. LETTA. HIGH FREQUENCY GEN-ERATOR ADMITS OF PRODUC-TION OF GZONE IN ANY QUAN-TITY AND WHENEVER DESIRES

In these days of war horror, we hear the destruction of life in whoch as the same of the destruction of life in the same of the destruction of life in the same of the destruction of life and a superiod caraging of this is the new which, beside generaling direct sheet of the destruction of

From "The Philadelphia Record."

Man usually thinks of himself as a unit—that is, unless he happens to be a soldier and the days. The second of the

For a way from the mind. For example:

For Milany's Hair

For Milany's Hair

Loes milady fear that dandruff is beginning to make inreads on her wealth of hair. It may be due to poor circulation in the scalp. Therefore milady removes scalp. Therefore milady removes end of this she fastens a comblike arrangement. The other she connects with an electric light socket by means of an ordinary for her to do except to comb her hair, and from the teeth of the violet-ray comb tiny stream into the scalp, unaccompanied by any the millions of tiny scalp and bload vessel cells, and even the hlood corpuscles themselves. Thus the dormant cells, stimulated to activity at the distribution of the

What Physicians Say

Results obtained by physicians throughout the country with the Violetta in cases of rheumatism, lumbago, bronchitis, nervousness, neuritis, neuralgia, goitre, etc.

ESPECIALLY GOOD FOR LOWERED VITALITY

"I am well pleased with the Violetta High-requency instrument. I find it especially good r patients with a low vitality. I intend order-g some more of the applicators in the near ture."

-Dr. E. M. Barnett, Masonie Temple, Meadville, Tenn.

INFANTILE PARALYSIS, GOITRE AND NERVOUSNESS



819 Ferry Street, Sedro-Wolley, Wash.

"Have treated one case with Ozone Generator, and the patient said it did him more good than any medicine that I had given him, and as to the Spark Cautery I have removed several warts with it and find it very satisfactory."

-Dr. F. O. Van Winkle, U. S. National Bank Bldg., Salem, Ore.

RESULTS OBTAINED BEYOND EXPECTATIONS



me great pleasure to endorse your Violetta High Frequency instrument; the results obtained are far beyond my expectations. The Therapeutic value of High Frequency current is underestimated.

-Dr. Carl E. Brown, Marion, Iowa.

SEES GREAT FUTURE FOR VIOLETTA

"I have had excellent results with your VIO-LETTA and can see the time when they will be used by nearly all in the profession."

—Dr. J. J. Smith, Beaver Dam, Wis.

NECESSARY INSTRUMENT

"I like this machine very much, and find it a very eccessary little instrument in my office."

—Dr. Howard F. Clark, Stuart, Ia.

VERY SATISFACTORY

"About three months ago I purchased one of your High Frequency Generators which has given me very good satisfaction." — Dr. B. G. Wilcox, 545 South Chicago Street Joliet, Ill.

GREAT RESULTS IN STUBBORN CASES

"It is just two months since we received your Violetta High-Frequency private the following cases with great results: Goire, Carbuncles and Boils, Three Cases Uterine Tumors. The above cases (except the carbuncles and boils) were of long standing and are now entirely well."

—Dr. D. J. Hackmann, 115 West 4th Street, Ottumwa, Iowa.

VIOLETTA INDISPENSABLE

"After using High Frequency Carrent for several months in a general practice my results are gratifying; to say the least out I would consider this branch of Therapeuties practically indespensable to every practitioner. The value cannot be estimated in dollars and cents. The results obtained in a large variety of cases lead me to believe the future of High-Frequency Therapeuties cannot be over-estimated at this writing.

—Dr. E. E. Giltner, Waseca, Minn.

GOOD RESULTS IN RHEUMATISM

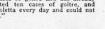
"The Violetta has given me some very satisfactory results in the treatments of Rheumatism, Neuritis and Uterine troubles." —Dr. H. B. Weaver, President Medical Society of N. C., Asheville, N. C.

WELL PLEASED

"I will say that I am pleased with the applications of high frequency current and have had good results from its use."

Douglas Block, Omaha, Neb.

Dr. W. C. Griffin, Cartersville, Ga., writes that he is treating six cases of goitre and has already successfully completed ten cases of goite, and adds, "I use the Violetta every day and could not get along without it."



ALL SWELLING LEFT IN ONE WEEK.

VIOLETTA RAYS

"I have had success with the VIOLETTA in a case of Carsenoma of the breast. It was as large as a hen's egg, and I reduced it to the size of a small walnut after eight treatments twice a week."

—Dr. Carl Gruber, Chinton, Iowa.

ALL PATIENTS LIKE TREATMENTS

"It has proved very benchical in the following cases: Rheumatism, Paralysis, Pleurisy, Leucorrhea, Conjunctivitis and many other diseases, and the treatments are so pleasnt that all my patients like it."—Dr. Harry T. Davis, Aurora, Jön.

GOOD RESULTS IN MANY CASES

"I have had very satisfactory results, in treating goitre, and a variety of nervous diseases. Rheu-matism, Neuritis, Neuralgia, Insonnia, Constipa-tion of bowels, and stomach troubles." —Robt. A. Hankins, M. D., Carlinville, Ill.

FOR BEDSIDE TREATMENT

"I will say that I have used High-Frequency Electrical Apparati in my practice for about ten years with good results in such cases as indicated, and have conferred great benefit upon my patients by its use. A few months ago I added a "Violetat" apparatus to my equipment and have found it of much henefit, especially in hed-side work where a portable apparatus is needed.

PROFITABLE OFFICE EQUIPMENT

PROFITABLE OFFICE EQUIPMENT
"It gives me pleasure to state that my HighFraquency Instrument has given me very satisfactory results in a number of cases. It is by far the
most profitable appliance I have in my office
equipment. My best results with it have been in
cases of lumbago, torpidity of liver and bowels,
venous engogements as in hemorrhoids. I had a
case of menorrhagia that the proposed promptly by
using High-Frequency current."

—Dr. J. L. Snavely, 401 2nd Ave., Sterling, Ill.

WOULD NOT BE WITHOUT IT FOR MANY

"Allow me to say that I would not be without the VIOLETTA for several times what it cost me. It has been of great help to me in many conditions. Have removed a number of Warts and Moles. Also an Epitheliona.".

—Dr. Robert Roddy, Kewance, Ill.

"I will say that I am pleased with the applications of high frequency current and have had good results from its use." —Dr. J. W. Oliver, Douglas Block, Omaha, Neb.

USES DAILY

"I use the Violetta in my practice daily and have found it most excellent for busions, soft corns between the toes and general massage which gives almost immediate relief to tired and sore feet. I would not be without this instrument."

—Dr. D. E. Hillinger, South Chicago, Ill.

"I would not be without the Violetta you re-cently sent me. It has accomplished some unusual results. I would not be without one."

Dr. H. J. Moynikan, Box 43, Winston Salem, N. Car.

"I am more than satisfied with the Violetta. I have used it in two acute cases of Lumbago and in four to five treatments the patients were all right, the first treatment giving great relief. I have also found it fine in other ways."

Dr. C. A. Border, 819 S. 3rd St., Ponca City, Okla.

"Have received a Violetta High-Frequency Generator and find it does the work very nicely."

—C. W. Holtzmuller, M. D., Farmersville, Ohio.

FOOL-PROOF
"We certainly would not be without the Violetay since we have tested its efficiency."
Dr. F. M. Geeslin, Brookfield, Mo.

PATIENTS WANT MACHINE AFTER TREATMENT
"Since receiving the Violetta I have used it several times on my patients with fine results, so much so in fact that several of them wish to know if I could get one for them."

—C. O. Zimmerman, M. D., Oakland, Cal.

THE VIOLETTA IS AS EFFICIENT AS AN X-RAY COIL FOR TREATMENT WORK.

"I am in possession of one of your Violetta Generators (outh No. 4) and very much satisfied with classes of work and results I pet out of it. I also have a 12 inch H. F. and X-Ray coil with resonator hat get good enough results with the Violetta that I am bound to get dry cells to operate it and do some good rentament work in the country."

—L. N. Smernoff, M. D., Atlanta, Nebr.

RELIEVES PAIN

"The VIOLETTA is the finest thing I ever used to relieve congestion in any part of the body, and to relieve pain. Treatments are so pleasant that all my patients like it."

Dr. G. B. Duncan, Kewanec, III.

TONIC TO PELVIC ORGANS "The Violetta is a tonic and a sedative to the pelvic organs when given with the insulated electrode No. 7 together with proper spinal treatments. Ozone is well known for its germicidal, properties to infections of the vaginal and uteries."

—Dr. L. E. Barnes, Chicago, Ill.

"Enclosed please find check for amount due you on apparatus. Am well pleased with it in every particular." —Dr. J. J. Doyle, —Dr. J. P. Peoria, III.



From Drugless Healers and Sanitariums

The Violetta is used in leading sanitariums, as well as by the largest exponents of drugless healing, with splendid results as testified below.

HAS HAD QUICK RESULTS

HAS HAD QUILGE RESOLUTS
"I have used the instrument in connection with
adjustments in every case with fine results, but
have had the quickest results in case of inflammatory rheumatism and gottres."

—Wm. H. Stack, D. C., Rock Rapids, Iowa.

HAS NOT FOUND ITS POWER EQUALLED. HAS NOT FOUND ITS POWER EQUALLED.

"I have your No. 4 Generator in daily use with entire satisfaction, not only on account of its portability but for its power which I have found equalled in any of the portable instrument found far in but one of the very large generators. If out it doing as good work as even machines with a large resonator. I am using it in my private hospital."

The Johnson College of Naturopathy. Oklahoma City, Okla.

"The Violet Ray machine I would be a control of the control

Oklahoma Cuy, Camero William Cuy, Camero Warks fine. It is especially good for looseffing up contracted muscles."—Wm. Schrieber, Jr., D. C., Burlington, Iowa.

"Your Violetta is incomparable when it comes to adjuncts in Chiropractic."

—A. A. Hanson, Owatanna, Minn.

FROM A MAN HIGH UP IN HIS PROFESSION
"I have used the VIOLETTA in numerous cases and found it instrumental in getting results where most everything else failed. I carriestly recommend it. I have found that in chronic cases where quicker and better result a many the VIOLETTA quicker and better result and the properties of the propertie

"I have had very good results with the application of High Frequency Current in cases of Paralysis, Rheumatism and Neuritis, and think it a great help in drugless healing."

-K. L. Allen, D. C., Boone, Ia.

"I prefer the Violetta for any practical purposes to any machine I ever used."

—C. H. Aker, D. M. T., Duluth, Minn.

A VERY MUCH GRATIFIED USER.

A VERY MUCH GRATIFIED USER.

You have not a customer on your books who is e enthusiastic regarding its beneficial effect where to the sum of the control of

throat, Coughs, and particularly so in neuralgic pains, fiendaches, etc., in fact there is hardly t pain of the human frame but what it will alleviate of not cure. — W. C. Pinchin, The Work City.

"My apparatus is working very nicely and I am pleased with it."

F. C. Davison, Kelso Sanitarium, Bloomington, Ill.

"We are using the Violetta and have had some especially good results."

—T. C. Weltmer, Vice President, The Weltmer Institute, Nevada, Mo.

"It is just two months since we received your Violetta high-frequency instrument and have given it a thorough trial in the following cases with great success. Exopthalmic Goiter; Corns and Bursions removed; Leucerrhea; Uteric Tumor. "The above cases except the carbuncle and boils, was of long standing and are now entirely well," was of long standing and are now entirely well," Electric Santiarium, Ottumwa, Iowa.

"I need the Violetta in my Sanitarium practice and feel lost when am without it." —Dr. James F. Blanchard, Supt. Grand Island Sanitarium, Grand Island, Nebr.

Grand Island, Nebr.

HAS GIVEN 4,000 TREATMENTS IN
MANY CASES

"It is with the greatest pleasure that I send
you a report concerning the use of one of your
Violettas during the past year. During that time
I have given about four thousand treatments with
the third of an infinite variety of alments and
back the proper of the property of the property

FROM PRESIDENT OF STATE BOARD OF EXAMINERS OF NORTH DAKOTA.

"Your VOLETTA outfit is very satisfactory, and is a great success in every respect, and it gives me pleasure and the pleasure of Examiners, State of North Dakota.

"I wish to say that I am more than pleased with the Violetta. I have tried same out very thor-oughly and find it to be in every way a great benefit."—Paul L. Myers, M. D., Nashville, Tenn.



Quality Points of the Violetta

THE marvelous and scientific con-struction of the VIOLETTA instrument places the resources of electricity in the form of the luxurious Violet-Ray High-Frequency Current among the first remedies to consider in more than half the ailments that afflict mankind.

Every detail in the manufacture of the VIOLETTA is gone into thoroughly and

each individual part tested before being made a part of the finished product. All parts of the Violetta are made with expensive compound dies and molds and the most modern and scientific machinery; assuring the utmost accuracy and correct finish.

VIOLETTA RAYS

For this reason it is possible for us to give such a liberal and ironclad guarantee with each instrument. The VIOLETTA is guaranteed to be kept in repair free of charge for a period of one year, but with ordinary care it will last a lifetime. Oùr guarantee number coincides with the number on each machine, the stub of guarantee is returned to factory when purchased. By this method we have a complete record and history of each individual machine.

Construction. The VIOLETTA is conveniently constructed in one piece, making it unnecessary for the operator to go to any other part of the room to make an adjustment.

Its simplicity of operation. The turning of a small button conveniently secures any regulation desired. This regulation can be accomplished while the machine is in operation and enables the operator to

apply the treatment mild or strong as the case may

require. No previous experience or technical knowledge is necessary to operate the Violetta.

Economy. It uses only 1/4 of the amount of current consumed by the ordinary 16 candle power lamp; and operates on any current alternating or direct without special adjustment.

Description. The entire mechanism is enclosed in a handsome, highly polished hard rubber casing. The entire instrument weighs only one and one-half pounds, and is encased completely with the electrodes in a handsome velvet-lined seal grain carrying case. It can easily be carried about.

about.

A FEW LETTERS TESTIFYING AS TO THE DURABILITY AND EFFICIENCY OF THE VIOLETTA

"I beg to acknowledge the receipt of the high frequency instrument which arrived on Tuesday, this week, Kindly accept my thad the promptly the promptly of the promptly





RECOMMENDS AFTER THORO TRIAL

RECOMMENDS AFTER THORO TRIAL

"I have had a good deal of experience with a
number of high-frequency apparatus and have
found them wanting, some in mechanism and
others in efficiency. I did not feel that I wanted
to present an apparatus to my students and the
I am pleased to advise that I have found the
Violetta satisfactory in every respect both in
efficiency and mechanical completeness. I am
ordering two more machines, one for Dr. C.
Strum of San Antonio, Texas, and another one
for my own purpose. I numendation, sufficient
trial to we reached.

BEST ON MARKET "They are all right and the best machine on the market." -C. E. Marquis, Bozeman, Mont.

A VOICE FROM AUSTRALIA
"We are daily using the whole outfit I brought
th me and everything is very successful."

—J. J. Pritchard, Melbourne, Australia.

ATTRACTED ATTENTION AT CONVENTION "Our meeting from the point of enthusiasm was a grand success. The Violetta attracted considerable attention and succeeded in overcoming an unfavorable impression that had been created in this section by another apparatus."

—Geo. A. Terry Co., Buffalo, N. Y.

WORTH TWICE AS MUCH "I received the Violetta machine on the 12th inst. and am highly pleased with it. It has even been better than what I expected it would be. It is worth twice as much as what I paid for it."

—Homer A. Wicker, Washington, D. C.

ALWAYS GIVEN SATSFACTION

"I have recently added one of your Violetta Generators to my office equipment and have tried it on many patients and it has always given satisfaction. "I am highly satisfied with the machine. "My pleasure, the other day, was to meet one of your saleamen. I was impressed with his appearance and manner of handling machine."

27 Davidson's Auto Bik., Sioux City, Iowa.

FIVE YEARS EXPERIENCE

"From our experience during the past five years that we have done business with you we find that you have treated us very nicely and our business relationship has been very pleasant."

—Yetet Co., New York, N. Y.

VIOLETTA IN CONTINUOUS USE SIX YEARS "We are sending you for slight adjustment a Violetta machine which has been used for six years continually. We believe that it has stood up wonderfully well after the hard usage goven it." —Theo. Stare Co., Kew York, N. Y.

BEST ON THE MARKET

"I have had some excellent results from your Violetta outfit, and think it one of the best and handiest machines on the market."

—Dr. Sherley C. Lacer, Louisville, Ky.

HAS TRIED THEM ALL—NONE EQUAL TO VIOLETTA.

"It is certainly a grand improvement over any I have used and I think I have tried them all. My patients remarked the difference immediately on the change made." 438 E. State St., Trenton, N. J.

Now-Try a Violetta in Your Own Home

On the following pages you will find listed the several styles of Violetta Violet-Ray Machines. As long as they are in our factory—as long as these machines are not in your home, you are missing the greatest health and beauty treat of your life. Why not send for a Violetta. This catalog contains as much evidence as we could possibly crowd into its pages to prove to you that Violetta Violet Rays will do more for you than medicine and will bring to you the healthy glow of youth and beauty.

Think how much more happiness there will be for you in life when you are feeling 100 per cent perfect every day. Think how much better you can work-how much you can enjoy your play. Think how much more pleasant you can be to yourself, to your family, to your friends.

If the Violetta were a new machine you could afford to be skeptical, but it has proven so successful in the hands of private users as well as in the hands of countless physicians and drugless healers, that you cannot afford to let any doubt stand in your own light—stand in the way of your own health.

Look over the Violettas listed on the following pages. Read the descriptions carefully and order the one that suits you best.





Violetta Outfit No. 3

The electrodes shown here with the outfit No. 3 are regarded as very practical for personal use. The No. 18 eye electrode can be used not only for the eye to stimulate the optic nerves, but also for crevices of the face or body or for the application on a restricted area where other electrodes would perhaps be too large. The comb electrode No. 3 can be used besides the scalp for applications on the back, legs, arms, or any part of the body. The No. 5 throat electrode because of its shape can also be used for the legs or arms.

For the man or woman who wishes to have at home a complete outfit ready for the treatment of any ailments that may occur, this is the ideal outfit.

Each electrode is contained in a separate compartment formed so that it will fit each individual electrode. The inside of the case is lined throughout with rich satin, across the cover of which is a purple silk ribbon, imprinted in gold. The outside of the case is lined in seal grained caratol with beveled corners or creased edges, paking a very handsome and beautiful outfit.

It has proved its merits in the treatment of asthma, boils, bronchitis, dandruff, readed, because thempore thempore in provinces a partie vinciles et in.

colds, headaches, lumbago, rheumatism, nervousness, neuritis, pimples, skin

diseases, and a host of other ailments

VIOLETTA RAYS

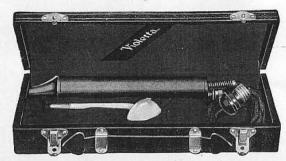
This instrument can be used with any of the electrodes shown on pages 39 and 40, and additional electrodes can be obtained from time to time as required.

It is an ideal outfit for home use and with it you can in your own home take Violet Ray Treatments for throat, eyes, scalp, face, and body.

Constructed to operate on 110 yolts A. C. or D. C.; 32 volts; or 220

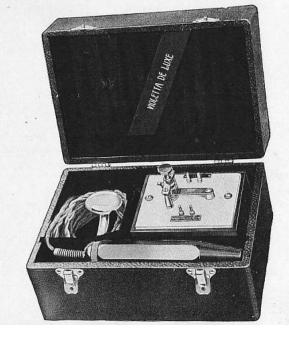
volts.





VIOLETTA OUTFIT No. 1

This outfit includes the Violetta Violet-Ray Generator and the General Electrode No. 1 which is the most important electrode of all.



Violet De Luxe

The De Luxe Outfit is the newest develop-ment of the two piece Violet Ray machine and is a perfect product of electrical design-ing. No pains or expense has been spared in making this as nearly perfect as possible and the best two piece machine on the

In appearance it is very elaborate, the coils being contained, in a highly polished wood box, either mahgany or white enamel approximately 6x5x4½" high. The plate upon which the adjustment is mounted is of pure white marble, all metal parts being highly nickeled.

mghly nickeled.

The handle in which the tesla coil is contained is of polished hard rubber 7¾" long and 1¾" in diameter, very neat and easily held with 7 feet of reinforced cord. On the end of this cord is a special plug of our own manufacture, which fits snugly on the two posts on the marble plate.

This is one of the distinguishing features of this two piece machine for the handle is detachable and prevents the breaking of the cord which is a common occurrence on two piece machines which have the cord permanently attached to the mechanism.

The entire outfit is contained in a very The entire outfit is contained in a very elaborate leatherette carrying case lined in purple satin. The cover is lined in folded satin, having a red ribbon across, printed in gold. It is of unexcelled beauty of design and performance, and presents a very elaborate appearance.

The De Luxe Outfit contains the polished wood instrument case, the hexagonal handle and cord, 6 feet line cord, body electrode and comb electrode, all contained in beautiful carrying case as shown.

The comb electrode has not before been furnished with this out the but we are adding it as a special feature.

Violetta Outfit No. 7

This is an ideal outfit for the home and contains not only the General Electrode, Comb Electrode, and Metal Electrode, but also the Ozone Generator No. 28 for Catarrh, Asthma, Bronchitis, Hay Fever and so forth. The Ozone Generator is fully described on a later page.

The carrying case for this outfit is specially made to contain all the electrodes mentioned including the Ozone Generator and its various attachments. It is lined throughout with satin with a purple ribbon imprinted in gold, presenting a very hand-



VIOLETTA OUTFIT No. 5

This outfit is very practical for Physicians' Use
This outfit is very practical for physicians' use and contains Vaginal Electrode, Rectal Electrode, Urethral Electrode, Metal Electrode, Eye Electrode, External Throat Electrode, or all Body Electrode for general use, The One Piece Machine is preferred by physicians over other makes because it is unnecessary for the physician to leave his partient during a treatment since the entire adjustment is in one piece. Furthermore, in the Hall Electrode No. 6 in the machine, make the ced fact with the metal cap of the glass electrode. All of our electrodes will fit this machine since they are interchangeable with all our types. For physicians we specially recommend in conjunction with the use of this machine the Ozone Generator No. 28.



MULTIFREX TYPE AI



The Violetta Multifrex -- Type A1

The Violetta Mu.

For the last six years High-Frequency generators of whatever nature or design, have shown no revolutionizing improvements. It was left to our many years of experience, study and convenience of the product of the p

CAUTERY AND DIAGNOSTIC ATTACHMENTS: Besides the various forms of High-Frequency currents which the Multifrey produces, it is equipped with Cautery and Diagnostic attachments.

the various forms of High-Frequency currents which the Multifree produces, it is equipped with Cautery and Diagnostic attachments.

Cautrary: The Cautery attachment is composed of a Cautery handle of our own design, a plastiment of a Cautery handle of our own design, a plastiment of the cautery handle of our own design, a plastiment of the cautery handle of our own design, a plastiment of the cautery handle of the kind is regulated by means of the adjusting serew and can be heated from a cherry red incandescence to white heat. The results obtained with this attachment are of equal value to the expensive cautery transformer sching in itself for \$30.00 or more. It is employed a parts of the body.

Diagnostic Lamp: The light for the Diagnostic Lamp is produced by means of a special resistance unit separate from the other mechanism, thereby effecting a steady bright white light with no flicker whatsoever.

Description: By exercising great mechanical insensity the entire outfit has been made to occupy about half the space of other host type machines. It means fully equipped with all attachments. The neutre outfit is contained in a heavy caratol covered case, handsomely lined with purple velvet. All metal parts are nickel-plated, the entire outfit heing very elaborate in appearance.

With the three capacities of the High-Frequency current, the Cautery and the Diagnostic Attachments, are middle plated, the entire outfit heing very elaborate in appearance.

With the three capacities of the High-Frequency current, the Cautery and the Diagnostic Attachments, the Multifrex covers a wide range of useful being very expensive appearant.

We present the Multifrex in a very compact form the advantages of very expensive apparati.

We present the Multifrex in a very compact form the advantages of very expensive apparati, and cases where High-Frequency in its different phetal and and the design of the part of the different phetal and a second outful to the part of the part of the different phetal and a factory in the different ph

antif A-1;

I Body Electrode.

I Insulated Frostatic Electrode for rectal and vaginal treatments.

I Insulated Urethral Electrode for bladder, ear, nose and throat.

Fulguration Electrode.

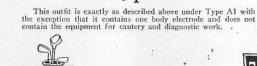
Fulguration Electrode:

Hard Rubber High-Frequency Handle.

Cautery attachment complete with platinum knife.

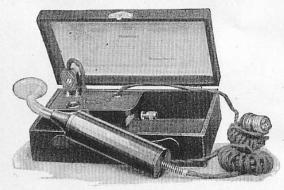
Diagnostic attachment complete including lamp. All contained in a handsome carrying case.

The Violetta Multifrex--Type B





The Baby Violetta--Type A



Patent Pending

Our Newest Product

Appreciating the demand for a lower priced Violet-Ray machine, we have now developed in our laboratories *The Baby Violetta*.

As you will note this is a neat and compact apparatus. The magnet coil and adjustment is mounted in a handsomely lined and covered carrying case, size 10"x51/2"x3" with beveled edges and nickel-plated hardware.

A specially constructed Tesla coil is contained in a very neat handle composed of highly polished insulated hard rubber and is shock-proof. No spark can jump from cord leading to this handle. In size it is 8" in length and 134"

Unlike other types of low-priced machines, a great deal of attention has been paid to construction and assembly. As you will note, the body of the instrument is composed of molded composition with metal inserts, insuring not only perfect assembly, but also a finished and handsome appearance.

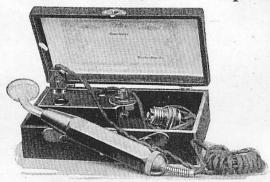


It is equipped with 7 feet of cord to lamp socket and 6 feet of heavy cord to the handle. It is furnished complete with carrying case, cords, general electrode and yearly guarantee.

Weighs complete 3 lbs. Guaranteed for one year.



The Baby Violetta-Type B



The Baby Violetta Type B is a new departure in Violet-Ray instruments. For the first time a Violet-Ray machine is equipped with an index, and the strength of current can be adjusted to "mild," "medium" or "strong." By means of eccentric contact points which control the index we are enabled to gauge the amount of current which is shown on the index. We have these features patented and they therefore can not be found on any other make.

The index agrees with our chart of instructions which shows when to use "mild," "medium" or "strong" currents.

The Important Features of Baby Violetta Type B are as Follows:

Equipped with index as mentioned.

Adjusting Knob on top of panel.

Handle can be separated from rest of instrument and is equipped with 2 pin composition plug of our own manufacture.

Specially constructed hexagon handle of beautiful design. Light in weight and convenient to handle.

Specially constructed Tesla coil to fit bandle.

handle.

VIOLETTA RAYS

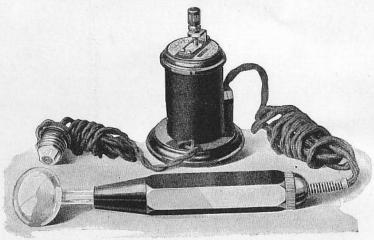
6. Formica panel, indestructible and highly

It is also equipped with all the special features of the Type B outfit and all other improvements in the general manufacture of our instruments.

Carries our regular one year guarantee. Will not operate on other than 110 volts.



The VIOLETTA -- Type C



The magnet coil and condenser of the Violetta Type C machine are mounted in a special die molded base, and are incased in a rigid vertical tube, the top of which is closed with a handsome highly polished die molded cover on which is mounted the adjusting attachment. All molded parts are made of a strong and durable composition and, on account of being die molded, are accurate and uniform, insuring a perfect machine. Height, 4½ inches; diameter 4 inches. Six foot cord and plug furnished with each machine.

Our efficient Tesla coil is contained in a very handsome highly polished hard rubber handle, hexagonal in shape, with a spiral spring to prevent breaking of cord.

Only Low Priced Machine Which Accomplishes Results

The only low priced machine on the market that will really accomplish the marvelous, health-building results possible through the scientific use of the VIOLET RAY. An electromedical apparatus heartily endorsed by physicians and beauty specialists everywhere.

Not a toy; not something to "tinker" with; a really effective, beneficial application of the Tesla discovery.



The VIOLETTA--Type C1

VIOLETTA RAYS



This instrument is the same as Type C only encased in a very handsome carrying case lined outside with heavy caratol, corners beveled and edges creased. Lined inside with rich satin throughout. The case is so constructed that the instrument and handle fit in specially constructed compartments. The electrodes are contained in a removable tray which fits in the cover as illustrated or can be removed and placed in main section of case to close lid. The tray is constructed with special compartments which contain the following electrodes:—

Body electrode for general work

Body electrode for general work. Comb electrode for scalp or body. External throat electrode.

External throat electrode.
Eye electrode.
Metal electrode.
Metal electrode to carry Type C or any choice of electrodes.

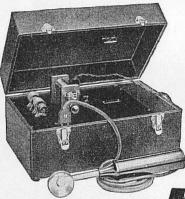
C1. Includes all electrodes shown in handsque satin lined case with removable tray complete.

C2. Includes carrying case without tray and one body electrode.

C3. Includes body electrode but without case. Enclosed in special cardboard carton.

Portable Battery Outfit No. 6

For Use Where No Current Is Available



This is an ideal outfit for use where no commercial current is available, and has been found suitable for all kinds of treatments. This outfit can be operated with 10 to 12 standard dry cells connected in series. Dry cells can be obtained at any electrical store.

VIOLETTA RAYS

We have also perfected a special storage battery containing 5 cells, to operate this outfit. By using this storage battery a saving in the cost of operation is apparent as no renewals are necessary and can be recharged in any garage at small cost.

The complete cells are contained in a caratol covered carrying case, and weigh 37 lbs. It has a substantial strap to aid portability.

The spark length of the High Frequency applicator can be regulated to any degree from a mild adjustment for facial and scalp treatment to a strong stimulating spark for rheumatism or for any other treatment where deep penetration is necessary. The frequency of this apparatus is extremely high, giving painless treatment. The results obtained being equal to those obtained with the standard 110 volt machine, as it is specially constructed and adjusted to oper-

ate on batteries or storage battery instead of the lighting current.

This is the first time that the High Frequency current has been success-



Storage Battery

This storage battery is made especially to operate our Battery Outfit No. 6 and contains 5 cells. Its capacity is 20 ampere hour producing 10 to 12 volts. Will run in connection with the instrument ten bours at full charge. Can be recharged. The plates are very durable and the battery will last from six to seven years.

It is 37 lbs. in weight contained in a very heavy caratol covered case with an extra stout handle

It is 37 lbs, in weight contained in a very heavy caratol covered case with an extra stout handle for portability. Size—11" high 17" in length and 5½" wide.



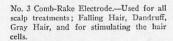
Additional Violetta Electrodes

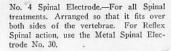
Our glass electrodes are made of special imported glass to stand sudden contr and expansion due to heat. All our electrodes are protected with metal caps, which d the life of the electrode. Each electrode packed individually in specially constructed We also make special electrodes according to your own designs.

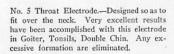
No. 1 General Electrode.—Used for facial and body treatments, and for any surface application. This electrode is constructed in such a manner as to prevent the current from heating, which is likely to cause it to break. For this reason it will outlast other makes of electrodes.



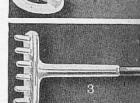
No. 2 Condenser Electrode.—As the name implies, it condenses the current, and produces a strong even flow; also generating electrical heat which is very desirable in deep seated cases. Used for Rheumatism, umbago, Neuritis, Neurasthenia, Skin Disses, Etc. This Electrode can be used in place of the No. 1 or No. 6.

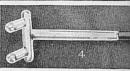


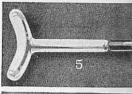




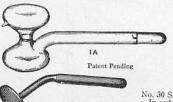
No. 6 Metal Electrode.—This delivers a strong current and is excellent for general tonic and where constitutional effects are desired. When held by the patient, there is no muscular contractions, merely a sense of warmth and glowing permeating the entire body. The current can also be drawn to any part of the body by using the No. 1 electrode or the fingers of the operator.



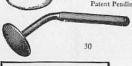








Electrode 1-A.—Double duty Electrode. For use same as No. 1 Electrode, but arranged so that from one Surface a strong current is produced for energetic stimulation, and from the other a very mild effleuve for light treatments.



No. 30 Special Metal Electrode for Reflex Action.

—In order to stimulate any muscle or nerve, place this Electrode in contact and then turn on the current, thus avoiding the spark. The organs or muscles can be made to respond as to direct treatment. Used mostly for stimulating the nerve centers at the Spine.



Violetta Lubricant.—Used in connection with the VIO-LETTA for any body treatments. The action of the High-Frequency current drives the lubricant into the tissues. 6 oz. bottle. Violetta Inhalant.—For use with the Ozone Generator.

1 oz. bottle.

Dr. Eberhart's Manual of High Frequency Currents.

For Export Trade

We manufacture the Violetta Generator for other than standard 110 volt current. However our standard 110 volt machine will operate on the following voltages and cycles when used with a resistance unit:

200	Volts	50	Cycles	A. C.	or	D. C.	use	400	Ohms	Resistan
200	44	60	**	"	- 61	44	**	400	- 11	- 44
220	44	60	44	**	**	**	**	400	**	44
240	**	60	**	**	**	н	- 66	450		- "
250	44	60	44	"	**	"	11	500	- 44	"
230	**	50	44	46		4	**	425	**	44
240	- 41	En	44	44	- 44	**	ii.	600		

When ordering these units specify screw or bayonet type of plug.





What Beauty Specialists Say

"We are very much pleased with the VIOLETTA and we give more VIOLETTA treatments, both sealp and facial, than any other; having almost 400 tickets on file at the present time." —Mrs. McConn, Mgr., Gield-Schlick, St. Paul.

VIOLETTA RAYS

"I have used the VIOLETTA for nearly a year. In Neuritis and Nervous headaches have had very good results. Have removed warts and moles with success. Cannot say too much in praise in the treatment of the scalp." —Mrs. Mary Gileer. 107 Jefferson St., Green Bay, Wis.

"We have now used your machine, the "VIO-LETTA" for over one year in each of the ten departments, which we control throughout the country and have found it satisfactory in every not one has gotten out of order. My operators like this machine in preference to any others as it is so safe and easy to handle. Because we are so pleased with your "VIOLETTA," we are sending this unsolicated and of our own accord. It is "Math." I Thome, 22 W. Monroe St., Chicago.

HAIR DRESSING DEPARTMENTS

YVETTE CO.

Blooden-Dark Co., Chickgo, 111.

Att. fir. J. J. Sleeton

Very traly yours, All deligner Enclosed places find order for our Los Angeles, Dept.

The H. O'Beil Co., Alren, Chie	4	
Boggs & Buhl, Pittsburg, Fa	3	
Stewart & Co., Baltimore, Ed	14	
Misselfedale's, New York City	2	
H. E. White Co., Boston, Mass		
The Howland Dry Goods Co., Bridgeport, Cons	3	
Prederick Looper & Co., Inc., Brooklyn, M. Y	12	
Enantel Broths rs. Chicago, Ill	14	
The Est Company, Clevelant, Chic	10	
The J. L. Hadson Co., Detroit, Licharders.	275	
Giabel Scottern, New York City	20	
Time, farith & Company, Enriford, Conn		
Cohen Brothers, Jacksonville, Fla	2	
Eline's, Earn: S City, Mo	10	
Hullock's, Lon Angeles, Cal	12	
B. Lowenstein & Bros., Kemphin, Tenn	8	
Gimbel Brothern, Eilwackee, 71s	10	
Mirmeapelis Dry Goods Co., Elmospolis, Minn	15	
L. Besterger & Co., Hessark, H. J	10	
The Bir. Balley Co., New Haven, Conn	3	
Manoan Blanche Company, New Grissne, Is	14	
tord & Taylor, Eng York City	15	
Gistel Brothers, Philadelphia, Passessessessessessessessesses	10	
The Recenteum Company, Pittsburg, Pa	12	
Ease between Outlot Comming, Providence, R. I.,	2	
Forber & Tellace, Suringfield, Ensa	2	
France & Sarr Co., St. Louis, Co.,	12	
Wield, Schlick & Co., St. Paul, Minnessessessessessessessessessesses	3	
S. Tann Som Co., Tashington, D. C	4	
Democin & Lotiny Co., Euroceter, Hast	*	
· · · · · · · · · · · · · · · · · · ·		

women have Violetta in their own he can give these beauty treatments at their own convenience.



USES FIFTEEN MACHINES



Some beauty parlors have thousands of customers for scalp treatments with the

"We have used the Violet-Ray machine in our shop for several years and have found that the VIOLETTA H. F. A. is satisfactory in every re-spect. We use fifteen of spect. We use fifteen of these machines in our several departments and none of them have ever gotten out of order." —M. Dechman, Mgr., Mandel Bros., Chicago.

CANNOT DO WITHOUT

treatments with the Violetta Violet Ray Generator.

"Have been using your H. F. A. for some time in my beauty parlor. The beneficial results are simply wonderful, in connection with both facial and scalp work. I simply could not be without it."

—Mrs. C. Cunningham, 1046 E. 43rd St., Chicago.

SIMPLE, COMPACT, DURABLE

"I find the VIOLETTA the best instrument of its kind that I have ever used, because of its sim-plicity, compactness, and the ease with which it is operated, and its durability."

-Gervaise Graham, Stevens Bldg., Chicago.

FOR LOWERED VITALITY

M. Barnett, Meadville, Tenn., writes:

"I am well pleased with the Violetta. I find it especially good for patients with a lowered vitality. I intend ordering some more of the applicators in the near future."

ENJOYED BY ALL PATIENTS

"I have found the VIOLETTA excellent in my work. It has many desirable features It is easily applied and most beneficial in results. It refines the texture of the skin and is very effective in removing of the neck and about the ears. Have found it fine for removing any deep seated soreness of internal nature. Its use in scalp treatment is splendid preatment is splendid to the clear about the VIOLETTA is that it is enjoyed by everybody."

—May F. Joyce, 605 Allambra Bildg., Millwaukee, Wis.



ployed."

H. R. Van Deventer,
Engineer Attorney,
Sumpter Electric Co.,
Sumpter, S. C.

"I do not quite see how I can get along without the Violet Ray machine as I know that all of my customers so enjoy having it used on them that I fear if I should be without one I would have to close my parlor."

Ancon, Republica de Panama.

Ancon, Republica de Panama.

From the largest establishment of its kind. We beg to advise that we have been using the VIOLETTA High-Frequency machines for more than one year in our establishment, and have found them entirely satisfactory in every thirty of these machines in constant use, daily and we are very pleased to inform you that we have had no difficulty since we installed them. They have given us perfect satisfaction.—E. Burnham, Chicago.

"I have been using one of the Violet Ray outfits in my shop three years and they are all right,"—Major Tho. Parker, Jefferson St., Danwille, Va. "I have opened up in a line of work, where I use this instrument constantly, and I must commend it in the highest terms."

"The Mrs. G. L. Rogers, Lynchburg, Va.



What Home Users Say About the Violetta

The following letters are genuine, unsolicited, expressions of appreciation of the VIOLETTA, the originals of which are on file in our office. You may write any of these people, and they will be glad to give you any information you may desire. We have thousands of others to whom we can refer; among them are some of our most prominent business, professional, and public mea.

VIOLETTA RAYS

we nave inousands of others be whom we can refer; among them are some of one most prominent business, professional, and public mea.

SURPRISED AT THE RESULTS SHE OBTAINED.

"I am more than satisfied with results in the application of Hina satisfied with results in the application of Hina satisfied with results in the plant of the property surprised at the cures I have been able to make. For instance, in a case of pleurisy, when the water persisted in the pleura and the, doctor could do nothing to absorb it, and the temperature of the patient went up every afternoon, I used your little VIO-LIZ and the temperature of the patient went up every afternoon, I used your little VIO-LIZ and in two weeks the patient was able to be up. I have cured two bad cases of water around the kneecap when the physician thought it would be necessary to put on a plaster east which meant a stiff knee. In both cases I had the water had without a cance in two weeks. To those who know what cance in two weeks. To the work of the water of the property applied. The property applied to the property ap

WATER ON THE KNEE

A tribute to the efficiency of the Violetta in a case of water on the knee is paid by J. Mary Tunpking 44 Fairgrove Ave. Fortiac, Mich., who after stating that the Violetta had given splendid results in rheumatism and falling hair, continues:

"A cousin who is using the Violetta machine has nearly been cured of water on the knee joint after being crippled for years."

And Mrs. Helene Briggs, Spokane, Wash, writes:
"The Volotta has done me lots of good as I had what they call water on the knee. This lady I am getting this machine for its in an awful shape. I have used my machine on her and it helped her most wonderfully so she must have one.

WELL KNOWN ACTRESS ADDS HER PRAISE
"Cheerfully will I add my praise for Violetta. Its
the best 'pan chaser' and 'soother' I've had the
good fortune to find. Its WONDERFUL. It cured
my brother of neuritis. As for myself I use it for
facial treatments and general massage. I use to
o much for it."

—Prince Frightza.

"Will say that this instrument is curing a very severe case of erysipelas which failed to respond to extensive treatment by physicians. Our cus-tomer is very enthusiastic as to its merits." —Marshall Electric Co., Marshalliown, Iowa.

"Have given your Violetta a thorough trial and it has proven very satisfactory. Can use another one in my work. Send outfit No. 1 with electrodes No. 4 and No. 6. Please rush this order and, send it to me at 5018 Western Ave., Omah. "Capt. H. L. Ankeny, Lanzoln, Nebr.

"Am very well pleased with the Violetta and I have already gotten a great deal at henefit from it."

—Fred Ward, Sylvan, Minn.

"Impossible to get along without one, and plearush order." —Mrs. Pearl Niland,
Box 32, Kittanning, Pa.

"I told several parties how much it did for me and they wanted to try it so I demonstrated to them. I am at the present time trading ten different parties every day and most of them want to get one for themselves."—G. O. Echlin, Milton, Pa.

"I think its great. I like the Violetta just fine."

—H. H. Mork, Seattle, Wash.#

"We have three of your Violet Ray machines and we cannot say enough for the wonderful work they have done." —T. B. Trevor B. Pike. Christchurch, New Zealand.

Christchurch, New Zealand.

ACHING BONES

A severe cold frequently leaves aching bones behind it which causes more suffering than the original ailment. Bradford Howard, P. O. Box 499, Watska, Ill., obtained relief in such a case by the use of Vlotet Rays. He writes: "I am delighted with the VIOLETTA. By using it I relieved a severe case of aching of the bones caused by a bad cold and find it generally soothing and stimulative."

"We are very much pleased with the instrument and find it quite useful in many cases."

—C. B. Hutchinson, Duluth, Minn.

"Some time ago while in Seattle, Wash., I purchased one of your Violetta machines. It has been the admiration of many of my friends who have seen it. I have two friends who would like to purchase a Violetta."

Blutton, Ind.



Simple Instructions for the Use of All Instruments

THE technique here given is that used in cases where the particular disease in question has been quick to respond to such treatment. However, with continued use of the apparatus, individual technique is quickly developed.

If a sedative effect is desired keep electrode in contact. If stimulating effect is desired, hold electrode away from surface, the farther away the longer the spark. A uniform spark of any length can be produced by administering the current through layers of toweling or through the clothing. The length of the spark depends upon thickness of the layers.

The indirect treatment is given by placing an electrode (No. 1, No. 2 or No. 6) in one hand of the patient, while the operator draws the current to any local point with the fingers or electrode No. 1.

Do not use high-frequency for scalp treatments with toni containing more than 40% alcohol.

Do not be afraid to use our apparatus. It is absolutely safe in every respect.



S—Strong SS—Short Spark Med.—Medium LS—Long Spark M—Mild C—Contact



DISEASES		Cur'nt	Elec'de No.	Trestm'i	Interv'i	Melhod
	Apply also to developing abaces to arrest its growth.	s	1 1	7-10	34	c
Abscess Alcohol and Drug Addictions	In alcohol, morphine or opium habits, apply over liver, solar plexus and spine. In cotains use mild current to soles of feet, arms and legs to point of reddening. Do not follow this treatment if blood pressure	s	1 & 6	10-15	1	SS
Asthma	is low. Apply over the chest and over throat glands. Also use Ozone Generator (No. 28)	S	1 & 2	10	1	c
Ataxia	The current and spark should be as strong as the patient will telerate; apply to the spine, over buttocks, abdomen and back of legs. Gradually decrease treatments to three times a week.	s	1 & 6	10-15	1	LS
Barbers' Itch	Spark over surface and about edges. Do not try to remove in one treatment. Treat until you observe destruction of tissue and let the intervals be determined by your judgment.	S	1	3-5	1	С
Birth Marks		Med	1	5	1	55
Bladder Disease (Cystitis)	Treat with electrode No. t over the bladder. The urine will clear very quickly. Operator hold hand on patient's back to draw current.	s	1	7	34	С
Boils (Furunculosis)	Cover a reasonable surface around the boil as well as the boil tiself.	Med	1	10-15	1/2	-C
Blackheads		Med	1	5-10	1	C
Brain Fag	Apply to forehead over eyes, back of head and neck, and down spine. Ozone Generator (No. 28) charged with pine needle oil should be sppilled to the nostrils about five, minutes each treatment.	Med	1 & 6	10-15	10	S
Breast Development	Cover the entire area to be developed.	Med	1 .	5-10	3/2	С
Bright's Disease	Apply over the region of the kidneys. It will be noticed that albumen quickly disappears.	S	1	15-20	• 1	C
Bronchitis	Ozone thould be inhaled through the Ozone Generator as much as possible in connection with the treatment. Applications of the current should be to the chest and back cauring a reddening.	S	1	10-15	14	LS
Bruises		Med	1	5-10	14	SS
Bunions		Med	1	5-10	1/2	C
Burns	If burn covers large area, use No. 1, if small, use one of the electrodes	Med		3-5	1/4	C
Callous or Corns	with smaller point.	S	1 or 20	3-5	34	1.s
Cancer (Mild form)	This is treated with a strong spark and may require anesthetic. Surgery in sometimes employed in conjunction. Consult authorities. Use Electrode No. 2) and follow with No. 1 or 2					140.00
Cankers	Electrone No. 20 and total with No. 1 at 1	M	10	1-3	34	C
		Med	1	5-10	1/2	c
Carbuncles	Close the eye lide.	Med	18	5	1	C
Cataract Catarrh—Nasal	me		28	5	16	1
	Pages a lew grops up pine security page. Follow this treatment with external treatment of the noise with Electrode No. 1 and No. 5 internally.			i codello		
Chafe	First apply High Frequency Lubricant.	Med	1	5-10	1	
Chapped Hands or Face	First apply High Frequency Lubricant.	Med	1	5-10	1	C
Chilblains .	Apply direct to affected part.	Med	1	10	1	120
0.11.0	After treating extremities until to some and abdomen as a conic.	Med	1	10	14	C



VIOLETTA RAYS



PAGE FORTY-EIG	;HT]			ATTS		
emanuscommunica				5-10	14	C
Colds in Head	Aprily over nose, above eyes and sides of face. Ozone Generator (No 28) inhibitions greatly assist. Also applications in the nose with Electrode No. 11	200		10-15	14	SS
Colds in Lungs	Trent chret and back and inhale from Ozone Generator (No. 28)	5	9	7	1	33
Constipation	Lubricate electrode with vanctine before inserting in rectum. Turn- current off while inserting or removing Follow with Electrode No. 1 to abdomen, contact 10 minutes, medium current.	Med	3	10	1	ss
Dandruff	Shampoo the scalp before treatment.	Med	3			1392
Deafness, Earache and Ear Diseases	Comfort of the patient should be the guide to length of treatment.	M		2-7	1	C
Diabetes	Apply over the abdominal area. Results must not be expected short of two weeks. Observe proper diet.	S	1	10	3/2	55
Diphtheria	Apply to inside and outside of throat with No.20 and No. 1. Use	Med		10-15	hrly	C
Dyspepsia	Apply over stomach and solar piexus. The Ozone Generator (No. 28) will sid.	5	111	2	hrly	C
Earache	Insert in ear.	M	**	-	mily	1
Eczema	A handkerchief or gauze layed over the surface will caute a slight spark and is preferable. If the skin itches hold the electrode slightly spark from the surface. This will retieve and grainfy. Apply High away from the surface. This will retieve and grainfy. Apply High Lubricate electrode with High Frequency Lubricant.	Med	1	3-8	1	С
	Apply over the brain and along the spine. No. 1 to brain.	Med	4	5-10	2	C
Epilepsy	Close eyelids, apply and repeat as destred.	Med	18		**	C
Eye Diseases	from the scale thus cause	S	3	5	3/2	
Falling Hair (Alopecia)	The hair usually keeps the electrode away from use sometimes a beneficial spark. If pain is felt on account of attraction of blood, reduce current.	Med	1	5-10	3/2	c
Felons				STORE	1	1
Female Troubles	As high frequency draws the blood, application during menstruation may cause excessive flow of blood. Do not have current on while inserting or removing electrode. Lobricate electrode with High Frequency Lubricans.	Med	7	7		c
	Lubricate with High Frequency Lubricant before inserting.	Med	9	5-7	1/2	c
Fistula	Apply to nipple and whole surface of breast	Med	1	5-15	1	c
Flabby Breast	Several weeks' treatment will be required	Med	1	5-10	1	12000
Freckles		Med	1	3-5	hrly	SS
Frost Bites Hay Fever	Apply Electrode No. 1 over the nose and spins and No. 28 In nostrila. It is advisable to anticipate the trouble and begin before	S	28	10-15	3/2	C
Headaches	discomfort is felf. Headaches are from varying causes. If relief is not had by applying to the sext of pain, cover the spine and stomach.	Med	1 & 6	5-15		55
	Cover spine and solar plexus.	Med	1	5-15	1	55
Heart Disease	Apply High Frequency Lubricant.	Med	1	3 to 5	1	55
Hives and Rash	Apply Man 1 to annual and a second a second and a second	Med	1	7	1	1
Gleet	Follow this with about 3 minutes of sharp sparks.	S	2	5	1	C
Goitre	Follow directions given under Gleet.		1	1		
Gonorrhea (Male)				1		
Gonorrhea (Female	Pain may be felt at first. It so, begin with short treatment and	Med	1	5-15	1	C
Gout			3	5-10	1	55
Gray Hair	Results are sure but slow, about two months being required for first results. Keep the scalp clean and brush vigorously with hair brust before applying. Make the spark as strong as telerable.	Micu		A		
Grippe (Influensa)	Cover spine, solar planus, over eyes and sides of nose. Inhalation from Ozone Generator (No. 25) will greatly aid. Inter usual application by Electrode No.11 is also beneficial.	Med	1	5-15	15	55
100000000000000000000000000000000000000	Cover back of head, neck and eye brown in order mentioned.	S	1	5-15	1	C
Insomnia Leucorrhea	Follow directions under Female Troubles; also use Electrode No. 1: to spins with short spark. Antiseptic douches should be taken.	1000				55
Lumbaro	Since the object is to relieve pain continue the treatment over	S	1	1		22





VIOLETTA RAYS

[PAGE FORTY-NINE

Massage	Let patient hold metal Electrode in one hand, turning on current after it has been grasped. Masseur's fingers will draw the sparis to point massaged. High Frequency Lubricant is excellent for massage.	M	1 & 4			
	Treat swellen parts.	Med	1	5-10	1	C
Mumps Nervousness		Med	1 & 6	5-15	1	SS
Neuralgia	turbs to cost of pain valsing the electrode occasionally to produce	Med	1	3-10		C
Neuritis	apply to sear Pint apply High Frequency Lubricant. The first few treatments usually increase the pain after which relief is felt, and the current may be increased and a short spark given. Apply at the sent of pain.	М	1	10-15	t.	ç
Obesity	Apply to affected ports and treat consistently. Begin as indicated and increase current as strong as tolerable. Fat will decrease and redistribute, giving greater comfort.	Med	1	10-15	16	С
Pains	Apply at next of pain until relieved with current and method that seems to give best results. If pain is at intervals, use electrode suited to the critics.		1 or 2		E.	
Paralysis	Apply along the affected muscles. Raise the electrode occasionally to produce spark. First apply High Frequency Lubricant.	Med	1	5-15	1	C
Piles (Hemorrholds) and other rectal diseases	Lubricate before inserting.	Med	9	.7	'	
Pimples (Acne Vulgaris)	About the nose and other sharp angles a smaller electrode is desirable. Where postules are forming raise the electrode slightly to give a mort apark for a chort time.	S	ı	7-12	2	C
Pleurisy	Cover back and chest through under clothing until skin becomes	S	1	10-20	345	С
Pneumonia	Apply Came Generator (No. 25 as por directions given under illustration). Apply electrode to back and chest through underciothing until fieth becomes red.	5	ı	10-20	14	С
Poison Ivy	Apply High Frequency Lubricant.	S	1	3-5	.1	LS
Pyorrhea	Inhalations from Ozone Generator are very beneficial. Place instru- ment before turning on current.	Med	10	* 7		C
Red Nose (Acne Rosana)	The object is to destroy the enlarged veins. The interval should be two to five days as the patient's comfort indicates.	Med	1-20	6-8		55
Rheumatism	Rheumatism responds quickly, but arterial rheumatism requires longer treatment. Treat the affected parts until pain is dispelled. A change in the patient's position will expose other parts requiring treatment. Treat as often as pain venppears.	S	2		*	55
Ring Worm	treatment. Treat is often in pain tappears	Med	1	5-10	1	SS
Scarlet Fever	Continue treatment until fiesh is quite red. Use Ozone Generator (No. 23) as directed.	5	2	10-20	34	55
Scars	The object is to destroy the tissue so that new tissue may form, therefor use as strong a spark as tolerable.	S	2	5	1	LS
Skin Diseases	Treatments may be taken as frequent as telerable.	Med	1	5-15	44	55
Smallpox	Before the disease has broken out give a general treatment to all parts of the body. If sores have appeared, treat each with No. II and cover the whole surface with No. 2. A short, atreng spark is best. Treat about 30 minutes, two or three times a day.				1	-
Sore Feet and Stone Bruises	First apply High Frequency Lubricant.	Med	1	5-10		C
Sore Throat	Apply High Frequency Lubricant for exterior	M	5-10	5-8	34	C
Sprains	If sprain is old use sharp spark.	S	1	15-20	36	C
Stiff Neck or Joint	3 First apply High Prequency Lubricant.	5	1-2	5-15	34	55
Tonsilitis	inhalations from Ozone Generator (No. 25) will greatly aid. Also apply No. 11 internally.	Med	1	5-10	1	55
Ulcers	Decrease from long spark to short spark.	S	1	6	35	LS
Whooping Cough	Inhale from Ozone Generator (No. 23) containing pine needle off. Apply No. 1 to chest and back.	5	1	5-10	35	SS
Writer's Cramp	Apply from finger tips to shoulder and upper spine.	Med	1	5-10	1	1 55





- Base of Brain
- Center of Neck.
- Middle of Shoulder.
- Middle of Back.
- End of Spine 7.
- Neck and Throat.
- Lungs. 8. Heart,
- 10. Stomach.
- 11. Liver.
- 12. Kidneys.
- Bowels. Spleen. 13.
- 14.

Condensed Directions for Surface Treatments with Violetta

For further detailed directions a chart is furnished with the instrument giving time and interval of treatments. The electrodes mentioned are shown on pages 48, 49 and 50. With all surface treatments Violetta lubricant should be used. Described on page 50.

ASTHMA-Use No. 2 Electrode A 8 and No. 5 Electrode A 7. Also Ozone inhalations

with Electrode No. 28 described on page 50.

Bons-Electrode No. 18 on B 7 or wherever they appear.

Brain Fag-Electrode No.1 on eyes, back of head and neck, and down spine. Ozone generator No. 28 should also be used.

BRONCHITIS-Electrode No. 2 on A 8 and B 8 until reddening is produced. Ozone inhalations with Electrode No. 28 should be used with each treatment.

CATARRH (NASAL)-Electrode No. 1 in



region of nose. Inhalations with Ozone generator No. 28.

VIOLETTA RAYS

COLD EXTREMITIES-No. 1 Electrode on parts affected, then Electrode No. 4 to spine and No. 1 on A 13.

COLDS IN HEAD-Electrode No. 1 over nose, above eyes and sides of face. Internal nasal treatments with Electrode No. 11. Ozone inhalations with Electrode No. 28.

Cours in Lungs-Electrode No.1 or No.2 on A 8 and B 8. Also Ozone inhalations with Electrode No. 28.

Constipation—Electrode No. 1 or No. 2 at A 13 and A 15.

DANDRUFF-Electrode No. 3 on scalp.

DEAFNESS AND EARACHE-Electrode No. 1 and No. 11 to ear.

Dyspersia-Electrode No. 1 or No. 2 at A 10 and A 13.

Есzема-Apply Electrode No. 1 thru handkerchief or gauze to produce a short spark.

EYE DISEASE-Electrode No. 18 over closed eye.

FALLING HAIR (ALOPECIA)-Electrode No. 3 on scalp.

HAY FEVER-Electrode No. 1 on spine over nose and inhalations with Ozone generator No. 28.

Headaches—Details given on page 7.
Insomnia—Electrode No. 1 at B 7, A 7

INFLUENZA-Electrode No.1 or No.2 over spine, over eyes and sides of nose. Electrode No. 11 in nostrils. Inhalations with No. 28.

Gottre-Electrode No. 5 at A 7.

LUMBAGO-Electrode No. 2 with short spark over painful area.

Massage-Allow patient to hold Electrode No. 6 and operator or masseur turns on current. Masseurs fingers or No. 1 Electrode will draw the current to any part of

NERVOUSNESS-Electrode No. 1 over spine and at A 7, B 7 and A 13. Results should be immediate.

reneronamentonomentomentamentonom

NEURALGIA-Electrode No. 1 or No. 2 to seat of pain with short spark or thru cloth-

NEURITIS-Electrode No. 1 to seat of pain.

OBESITY-Electrode No. 1 to affected parts and treat consistently. Begin with mild current and increase as strong as tolerable. Fat will decrease and redistribute, giving greater comfort.

PIMPLES-Electrode No. 1 or No. 19 where small areas are to be treated. Raise electrode to produce a short spark.

PNEUMONIA-Electrode No. 28. Also No. 2 at A 8 and B 8 through underclothing until redness.

RHEUMATISM-This responds quickly, Use Electrode No. 1 or No. 2 until pain is dispelled. Treatments should be through clothing allowing a spark. Treat as often as pain reappears.

Scars-The object is to destroy the tissue so that new tissue may form, therefore use a strong spark with Electrode No. 1 or No. 20.

SKIN DISEASE-Electrode No. 1 held slightly away from skin to produce short spark.

Sore Throat and Hoarseness-Electrode No. 5 at A 7 and A 15, also Electrode No. 10 internally. Also to improve voice.

STIFF NECK OR JOINTS-Electrode No. 1 at A 7 or at joints affected.

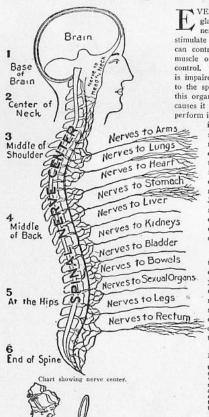
Tonsilitis-Electrode No. 1 at A 7. Electrode No. 11 internally and Ozone inhalations with Electrode No. 28.

ULCERS - Electrode No. 1 or No. 20 with sharp spark.

WRITERS' CRAMP-Electrode No. 1 to finger tips and upper spine.



Violet Ray Spinal Applications



VERY muscle of the body, every gland, is controlled by a certain nerve or nerve center. If you stimulate these nerves or nerve centers you can control absolutely the action of the muscle or organ which they themselves control. When the activity of any organ is impaired, a High-Frequency application to the spinal nerve center which controls this organ, sets up a reflex action. This causes it to regain its normal state and to perform its natural function. For instance,

its natural function. For instance, if digestion is sluggish apply to the stomach itself, and then to the nerve centers of the spine which control the stomach. The same thing is true of every other bodily function: first, apply to the seat of pain and then to the spinal nerve center with Electrode No. 30 in contact. The illustration shown here is not meant to be exact but merely to give a general idea of the relative position of nerve centers and organs.

If the digestion is sluggish and the stomach out of order thru error in diet or general debility, you can give the stomach just exactly the stimulation which it needs by first applying to the stomach itself with the general electrode and then to the nerve center of the spine which controls the stomach.

Miss Hannah Olson, R. 3, Story City, Iowa, writes:
"I suffered from spinal trouble and in times of severe pain and weakness it seemed to be the only thing which would give relief. It has such a would give relief. It has such a later to be suffered to be the only thing which would provide the suffered to the suffered

Spinal Stimulation

VIOLETTA RAYS

The following shows where Spinal Stimulation with High Frequency Current should be used:

- Apply at this point for headaches, eye diseases, deafness, insomnia, wry neck, facial paralysis, locomotor ataxia, etc.
- Apply at this part of the spine for throat trouble, neuralgia, pain in the shoulders and arms, goitre, nervous prostration, la grippe, dizziness, bleeding from the nose, catarrh, etc.
- Locates the part of the spine where high-frequency stimulation is used for bronchitis, pain between the shoulderblades, rheumatism of arms and shoulders, hay fever, etc.
- Apply at this point for asthma, pneumonia, tuberculosis, difficult breathing, other lung troubles, writers' cramp, etc.
- 5 and 6. Stomach and liver troubles, enlargement of the spleen, pleurisy.
- 7. Bright's disease, diabetes, ovarian troubles, skin disease, eruption.
- Spinal applications at this point give relief in such cases as appendicitis, bladder diseases, peritonitis, uterine troubles, irregular menses, lumbago, etc.
- Apply for constipation, rectal troubles, piles, sciatica, prostate trouble.
- 10. Sciatica, rectal, uterine, and prostatic troubles, together with many other diseases of the pelvis and lower extremities.

It is an established anatomical fact that the brain is the great nerve center of the body, and that it has a prolongation, the Spinal Cord, which passes downward through a canal in the spinal column. This spinal cord also has prolongations called the spinal nerves which pass out through the intervertebral foramina (small openings between the movable bony segments or vertebrate of which the spine is built up.)

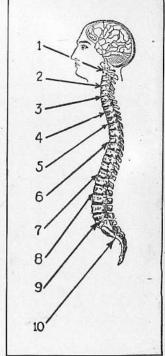


Chart showing spinal areas.





Get Your Violetta Now

OUR Violetta is all ready to ship. We want you to have it and use it at once, so you yourself can feel the splendid benefits derived by so many others from its use.

If you are a sufferer from any of the numerous ailments mentioned throughout this book-if you are a physician with patients who are suffering from these ailments-if you are an osteopath,-a chiropractor-a drugless healer-you will find the Violetta

Violet Ray Machine the highest type of high frequency current available, the highest type of electrical development used as a curative agent.

Throughout this book you will find the testimonials of actual users of the Violetta Violet Ray Machine.

Violet Rays are not new. They have been tried and proved successful in tens of thousands of cases for almost every known human ailment. There is nothing dangerous about them. In fact, they are harmless even to infants.

The great medicinal value of Violet Rays cannot be explained. We know that they are healing and that is all. We know that Violet Rays penetrate to every cell, tissue, and organ of the body. That they reach the most remote parts of the human organism. These facts are readily demonstrated.

In view of the testimonials printed in this book and the great mass of evidence which the limited size of this book forces us to omit, we urge you to order your Violetta at once. Try it. See how it gives almost instantaneous relief-see what beneficial effects it has-see how it soothes where soothing is needed-see how it stimulates where stimulation is neededsee how it revives every tissue of the human system-see how it vitalizes you into almost a new being. Don't put this important matter off. Send for your Violetta today. Order the Outfit No. 1 if you want to use it at home, or if you wish to have a complete outfit, No. 3, or one of the other outfits. See pages 29 to 37 for complete list of Violettas.

HOME APPLIANCE DEPARTMENT TOASTER STOVE AND GRILL



This efficient little worker serves the dual purpose of a fine toaster and an efficient stove for frying, boiling and baking.

The six strands of super heating element in this sturdy little grill insure the attainment of a quick heat and the maintenance of an even degree of temperature, so necessary to perfect cooking.

Both the toaster tray and the grill plate are interchangeable which makes it possible to switch from one to the other at the desire of the user. The sliding tray which fits in the base makes cleaning easy.

For the convenience of travelers it is fitted with detachable legs which makes packing possible in a box as small as 10 in. x 6 in. x 2 in. Size ready for use, 4 in. high, 5 in, wide and 9 in. long.

Fully Guaranteed for One Year No. 1A...............List Price \$5.50

JUNIOR GRILL



GRILL STOVE

GRILL STOVE

Dandy for light cooking. Large enough to toast two slices of bread at once or to keep coffee pot warm while toasting on other end. Ideal for travelers. Completely nickel plated. Weighs only 1½ lbs. Size 5x9 inches, 3 inches high. Supplied with cord, two-piece attachment plug and separable connector.

ELECTRIC STOVE A Real Convenience



SECTIONAL HOT PLATE



A most useful appli-ance — for heavy duty cooking the same as a gas or coal range. Has three concentric heating areas,

PERCOLATORS Make Better Coffee



The Best of Coffee They Create-Boiling Point-They Percolate

These Percolators are designed for hard, every-day use on your breakfast table. Good looking, yet economical. Extra heavy hard drawn aluminum. Improved principle makes better coffee. Pumps absolutely nothing but water at the full boiling point. Only the true coffee flavor is extracted, leaving the bitter tannic acid in the coffee grounds. Try a Percolator for your next cup of real coffee.

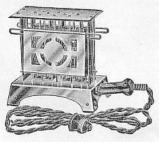
WAFFLE IRON



Serve delicious, piping hot waffles made right at the table. The waffles are just right in thickness. Even electric heat applied to both top and bottom at same time insures perfect results every time. Waffles made full size-7 5/16 inches in diameterfully half again as large as made by the ordinary electric waffle iron. Top of iron is flat-may be used as a plate warmer while cooking waffles. Weight, 5 lbs. Height, 41/2 inches. Maximum leg span, 91/4 inches.

No. ID.......Price \$12.00

No Electrically Wired Home is Complete Without a Toaster



This is a masterpiece of the appliance builders art. Put side by side with any other toaster on the market it is the inevitable choice of the discriminating buyer. Its six horizontal strands of super heating element insure a degree of heat that not only toasts quickly but so distributes the heat that the bread is evenly toasted at all points. Its spring operated holders enable the user to toast two slices of bread at one time.

one time.

Fully nickeled with a heavy plate that insures lasting beauty.

Size, 6 in. x 6½ in. Equipped with composition plug and six foot extension cord.

Fully Guaranteed for One Year.

No. 3A.....List Price \$4.00

HEATING PAD NO. 5



This is the mod-ern application of heat. Useful wher-ever there is an ache or a pain. Invaluable in sick-Invaluable in sick-ness. Stays hot as long as you wish. Three degrees of heat. Protected by reliable series ther-mostat. Costs only

mostat. Costs only ½ cent an hour for current. Full size 12x15 inches. Covered with soft grey wool eiderdown. Supplied with white washable slip, ten feet of cord and three heat nickel-plated push button switch.

Heating Pad No. 5—110 volts, 45 watts. Price \$8.00

MARCEL MANAGEMENT OF THE PARTY OF THE E43

HOME APPLIANCE DEPARTMENT

WAVER

NO.6A

Marcel your own hair by means of this excellent article. No other product on the market so efficient and simple to operate. Never before could the home user get such excellent results without the assistance of a professional beauty culturist. The illustrations and directions with each waver are so clear that no difficulty will be experienced in accomplishing good results. Nothing looks prettier than a beautiful head of hair neatly marcelled with a deep, attractive wave. This is a very attractive article made of the very finest materials. All metal parts are heavily nickel-plated. Handle is black ebonized finish. Fully guaranteed against burnout for two years. No. 6A, complete with detailed directions.

COMBINATION CURLER AND WAVER ROD NO. 6B



Undoubtedly the finest curling iron on the market regardless of price. Beauti-fully nickel-plated and ebonized handle. Just fits the hand. Clamp is removable for use as a waver rod. 11½ inches long. ¾ inch rod. No. 6B—each, 110 volts, 18 watts. Price \$4.00





No. 6C Curling Iron the greatest buy on the market. Small and very light for fine work. 10½ inches long, 5/16 inch rod. No. 6C—each, 110 volts, 16 watts. Price \$3.50 No. 6D Hair Drier in comb shape. Dry your hair quickly after swim or shampoo. Avoid colds and save time. Straightens out snarls while combing the hair. No. 6D—each, 110 volts, 30 watts. Price \$3.50

watts. Price \$3.50

A WONDER AT \$5.00



Price \$5.00 Vibrator 7B-Similar to odel but with a ntensities of vi-

or D. C. Price \$10.00



You may get cheaper irons, but none better his No. 6A six pound iron is the housewife's irod. Top section consists of heavy sheet steel ood to which are firmly riveted the handle supports. Black ruberized wood handle. Bottom tetiom consists of heating element imbeded in tiom plate, and clamp plate which also serves as at reservoir. The ironing face is smooth as glass at different countries of the plate of

No. 9A Iron...... Price \$5,25

FIFTY-SEVEN

KEEP COOL WITH THESE STURDY FANS

HOME APPLIANCE DEPARTMENT

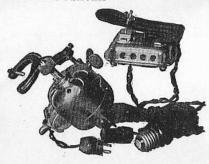
We recommend these fans as splendid bargains, easily worth the low prices asked.

Fan 11A-6 Inch	Price	\$	5.00
Fan 11B-6 Inch with switch to			
change strength of current	**		8.50
Fan 11C-8 Inch.	44		8.50
Fan 11D—9 Inch	44	- 6	12.50

A REAL LABOR-SAVER

A labor saving device that is one of the most useful items a woman needs and appreciates. Operates practically all makes of sewing machines, attaching by means of a removable clamp that allows several different adjustments, and from which the motor hangs directly against the sewing machine wheel so that it cannot possibly get out of alignment. Speed is controlled by a rheostat with lever operated by the foot. Cost of operation only about 3/10 of one cent per hour. Detailed directions for installation. Sewing Machine Motor No. 8A Price \$12.00

No. 8A.... Price \$12.00



THE VERY BEST HAIR DRYER IN THE MARKET

Casing made of highly polished aluminum and mechanism is absolutely fool proof. A heating element of special wire throws a large volume of hot or cold air almost instantaneously. The universal motor allows operation on both alternating and direct current 110 volts.

Light of weight, the only dryer constructed of aluminum with nickel finish, self-lubricating bearings, has a porcelain heating element easily accessible and guaranteed to give thorough satisfaction.

Therapeutic Lamp 12A-\$12.50

The meagreness and uncertainty of literature concerning Light Therapy has kept many physicians from employing one of the most powerful of therapy appliances. We read that the Actinic Ray is the only ray that is destructive to germ life. We are also told that the arc light is the only light capable of penetrating bone matter.

The fact remains, however, that various colored lights differ only in wave length, and the shorter the wave length, the greater the penetrating power. White light has a shorter wave length than any of the colors, and as we all know is a combination of all the colors.

The electric arc light is practically disqualified for therapeutic purposes. Dr. Rogers says, "The chemical action of light depends upon the substance upon which the rays strike, and not on any chemical quality inherent in the rays themselves." Oxygen enters the blood through the lungs, but light is absolutely essential in the generation of perfect red corpuscles.

The white light, that is, the light obtained from the usual incandescent or stereopticon bulbs, is indicated wherever the normal physical condition has been disturbed or impaired from most any cause.

THERAPEUTIC LAMP—A WORTHY HEALTH APPLIANCE

The reflector on the "Therapeutic Lamp" is made of highly polished aluminum, spun to true parabolic shape, and owing to its simple clamping device, is readily removed for re-finishing at any time. The inside diameter is nine and one-half inches.

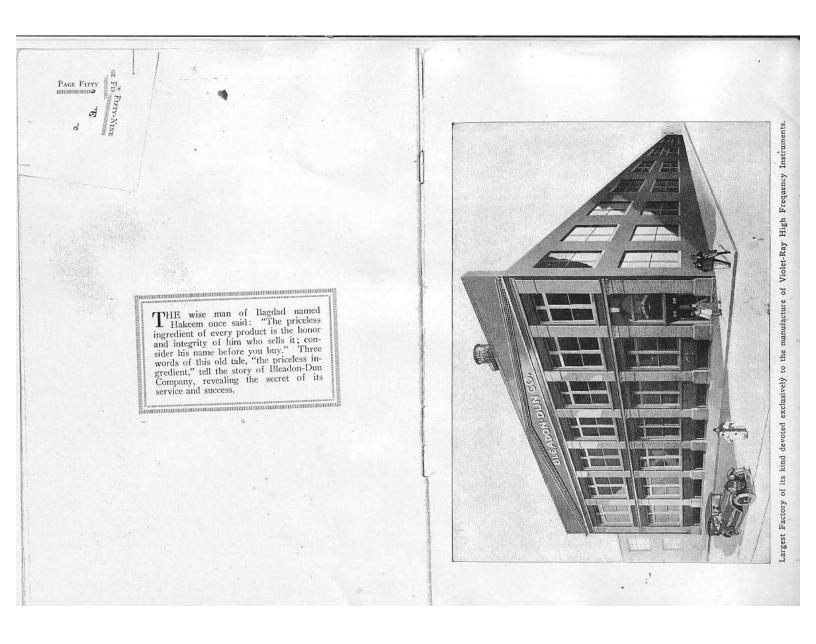
The lamp bulb itself is of the carbon filament stereopticon type (of 375 watts capacity), permitting the rays to be concentrated at the focal point. The rays, therefore leave the hood in parallel lines, covering sufficient surface for the average treatment and permitting few, if any, rays to be deflected into space.

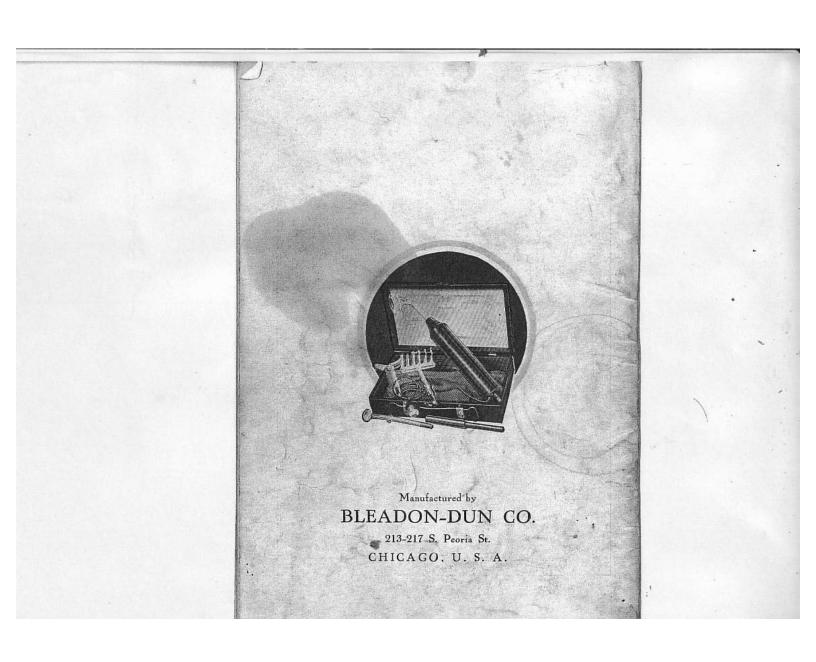
The handle is firmly held by a metal band clamp; no solder being used.

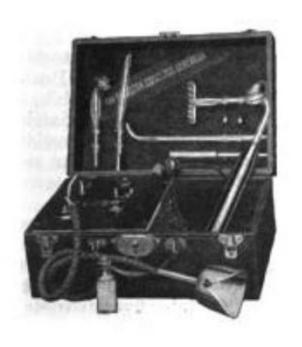
This lamp is truly portable in spite of its size. It weighs only a few ounces, and is the product of thought, study and experiment. It is a lamp which commends itself to the busy practitioner who wants to get results.



Lamp 12B-\$6,50







Violet Ray Generator and Ozone Transformer

From Electrical Merchandising, July, 1920

A new model of combined violet ray high frequency generator and ozone transformer is being offered by the Charles A. Branston Company, 41 Ellicott Street, Buffalo, N. Y., manufacturers of electro-medical apparatus.

In this model, which is No. 25, the high-frequency colls are wound to produce a current of exceedingly high oscillation. The ozone attachment is provided with a glass reservoir for the solution of ozone oil, which filters the ozone and eliminates irritating gases. An inhaler covering nose and mouth is provided. The generator is mounted in a leather cov-ered carrying case with nickel-plated trimmings.

Other models made by the same company combine high frequency and sinusoidal currents, high frequency, sinusoidal and ozone, and violet ray high frequency

only.

Telephone Model Violet Ray Generator

A new "telephone model" of its violet ay high frequency generator is being brought out by the Charles A. Branston Company, 41 Ellicott Street, Buffalo, N. Y., so called because it looks like a telephone and may be hung from hooks, picture molding or bedstead. To operate, the user simply takes down the handle and turns a knob. The device is portable and may be used when flat on the table or hung on the wall.

Automatic Printing Telegraph

共鸣火花治疗器 使用说明

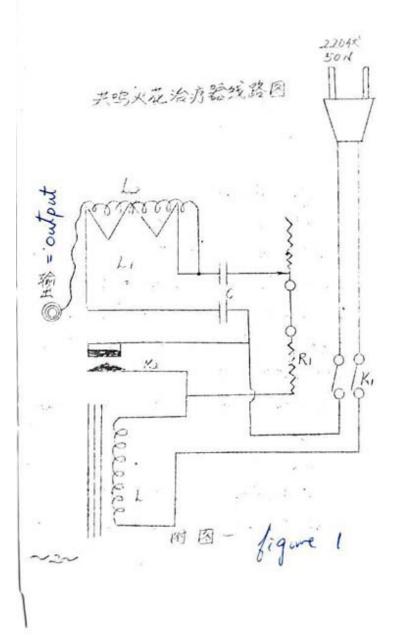
一、用途税还:

共鸣火花治疗机定一种高压高频电疗机。适用于治疗各种神经痛、神经炎、局部強痒症、夜尿症、肌无力症、血管系统疾病(痔核、静脉曲张、闭塞性动脉内膜炎、留舌氏病), 营养性溃疡、创证、脱发、酒糟鼻、溼疮、扁平疣、神经性耳鸣、上呼吸道感染、付鼻膜炎、齿深炎、偏头涌。菜忌症: 化脓化性疾恩。

二、结构原理及主要参数:

本治疗机由高频振荡发生器及各种玻璃 电极两部份组成。见产品结构图。(图一)

 $\sim 1 \sim$



1、线路原理简介:

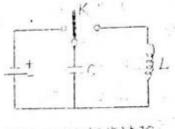
当开始瞬间时,振动器"K2"在前止位置(合闭)接通了线圈工 的电路。工 有电流通过产生磁力间将弹簧铁片宏住,"K2"点打开同时切断本身电路。在此瞬间形成了一个新的串联电路,它由线圈工 , 电容 0,主振线圈工 1和可调电阻 B 组成。这个电路有两种电压,(1)电源电压,(2)准断路时线圈工 所产生的自愿电势。两者已压之和(向量和),使槽电路电容器 0 克电,同时弹簧铁片被种开在回到原采位置的瞬间使间深发生火花,于走电容器 0 放电,与工 1 R 初成 溅幅波滤荡。

线图 L 2 是 L 1 的升压用刮线图,因此 L 2 也感应到很高的电压,真波形也是同样 的高频电压。电位器上可以控制超过主联线 圆 L 1 的电流。采改变 L 1 的编记压。因此

~3~

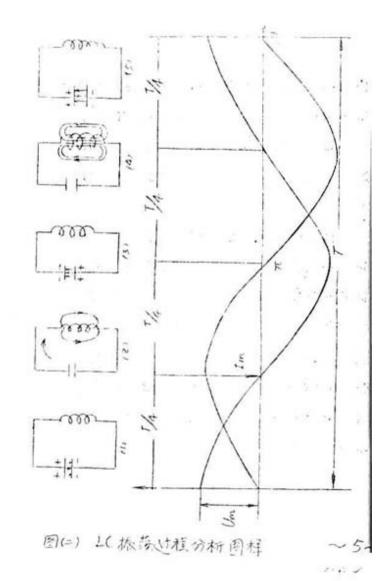
间接地调节改交上2输出端的电压。

2、高头液汤电路走由电容器、线圈组 成一个问款淡凝胶汤器, 英振荡原理如图口。



图(二) 1.C 报荡过程 分析图样

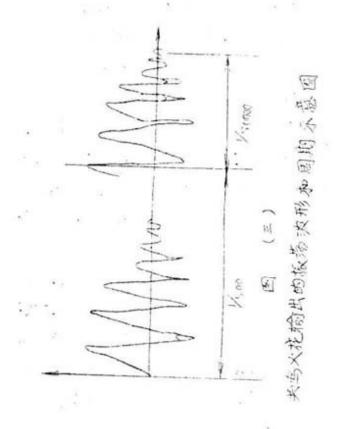
figure 2



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由的二者出当五(实际由研察规点起开关作用)读规电源后记答器以改充记如识()。

当工技组线由山町电容器立即通过线由 双电知區(2)。电容器 放电终了 5.1回 C 流放大 (エ/ 4),



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兵王旻克多数:

输入电应: 220 V 50 网 25 W

輸出效率: 150~300 KC

前出电压: 16KV 30KV

輸出電流: ≤30 m A 二

三、共鸣火花电疗对人体的生程作用:

由于共鸣火花电疗对人体能产生多种生 程作用,适于治疗多种疾病,故早为国内外 理疗医务工作者广泛采用,为主要的理疗手 段之一。

(1)疾鸣火花电疗主要是应用高频高压, 在组织内不会产生保宜流电疗郑祥的高子移动,因此对知觉和运动神经没有刺激作用。在 治疗时病人有时感觉的刺痛主要是火花放电 引起的烧伤作用的及蛋白质分解产物对神经 末稍的作用。

(2)驻中等以上剂量时, 病人会有轻度的 ~8~

温热磁产热原因是感受治疗的机体形成了一个高频高场, 机体内带电荷的颗粒, 在高频的作用下, 随着电场的改变面振动, 而产生热。

(8)高频高压电流可以降低知觉神经和植物神经的兴奋性,特别是植物神经,能对神经血管调节装置发生影响,故可便血压降低,头部充血减少,头昏耳鸣等症状凝轻,对第1-2期高血压有良好的作用。

(4)共鸣火花电疗虽然作用于局部,然而可以使机体产生普遍性反应,表现为血液循环改善,新陈代谢增强,尤以气体代谢更为显著,因此可以改善全身的机能状态。

(5)共鸣火花电疗可以降低神经系统之兴 奋性,又有很强的止痛及镇静作用。在治疗 时间较长、电流较强时,可使知觉完全消失, 故常用于神经痛、神经官能挺等息疾。

~9.~

(6)可以刑节血管的除示反。便中导反动 脉充血。皮肤血管开始收缩,然后扩张。有 时在高频高电压电疗后,无血能保持相当长 时间,故可被普局部血液循环。因此常别于血管 机能障碍等压疾,如静脉出张。痔核动脉内 膜炎等。

(7)多次实验中证明, 共鸣火花电疗对慢性溃疡及疮口有显治的治疗效果, 其主妄机制是在慢性溃疡病及疮口内神经本稍有营养不良性变化, 可从示波器中看到从溃疡及疮口内由感觉神经向中枢神经系统有一种节律性, 脉冲性放电, 并按一定问隔重复美脉动,这个冲动可使中枢发生一定的机能致变, 简直设影响溃疡及疮口的愈合。由于共鸣火花电流对神经强度之抑制作品, 而便这种冲动阻断, 达到封闭疗法的作用, 改善了局部的营养状态, 也由于共鸣火花治疗时产生的高~10~

温火花有杂菌的作用, 因此长<u>迁溃疡</u>灰疮口 时愈合。

(b)共鸣火花电疗问样可起到节投灰射的作用,从远隔病变部位的相应神经节投时,也能得到相似的反映,当头涌作用于顽区,下肢静脉曲张时作用于层部,当动脉内膜炎时作用于交感神经节,都能起到良好的效果。

(9)共鸣火花在局部上可提高肌肉的张力, 紧张废甚强,并能改变组织之营养状态,故 可用于美容及其皮肤肌肉松弛等疾病。

四、共鸣火花电疗的几种常用方法:

1、头部治疗法:

选用梳式电极,弱的电压整轻地按毛发 旳走向梳动,时间最长为10分钟,每日或 隔日一次,20~25次为一疗程(有毛发 旳皮肤上不妥揃清石粉)

2、面部治疗法:

~11~

选用掌形电极(所有的平滑皮肤部可用 此种电极) 先平稳的接环形从发边到下领部。 再从磐中间的两耳部移动。采用低电压,时间最长为10分钟,每日或隔日一次,20 ~30次为一疗程,(面部皮肤也不要擦滑 石粉)

选用细凼检项部有球形的电极, 病人要 闭上眼睛, 治疗部位走从眼球为中心, 学径 3~4 厘米园周中进行, 电板呈环形, 轻轻 移动, 采用弱的电压, 时间为 6 分钟, 每日 或陷日一次, 5~10次为一疗程。

4、耳部治疗法:

先把耳廓向上后拉, 方量不宜过强, 不 使产生疼痛的感觉。用耳电极小心地插入外 耳进内, 约1~2 应米, 全部治疗过程中, 护理人员要军固地拿征治疗牝柄, 不能移动, ~12~ 采用弱电压,时间为3分钟,与日层向日一次,20次为一方程。

5、 鼻腔及行鼻窦区 四治疗 运: ...

选用导电积小心独入异股的1·3~ 2·3厘米,不妥移动。吊勒电压,时间为 3~5分钟,隔日一次,12~15次为一 疗准。(鼻腔电积不要涂凡士私.)。

付募宴区治疗可选用耳电板、或细图柱 形电板, 距付募奚款面约3~4厘米, 用电 同样剂量, 时间为3~5分钟, 隔日一次, 12~15次为一疗程。

5、齿球治疗法:

选用细长国柱形或耳电极, 政者上下街 版秒初, 不要触到牙齿, 先治疗一边, 然后 将治疗另一侧, 如发现有耳结石, 应予先去 掉, 用弱电压, 时间为10分钟, 每日一次, 15~20次为一疗程。(为遗克电极短到。

~13~

与当可与电影玻璃派上4~5 起菜长的程度 套,只露出电极的尖璃)。

7、心区治疗法:

选用罕形电极,在左侧胸部从领情到肋缘 受慢旋转的移动,或是从胸骨到腋削线移动 (应选升乳头)用中等量电压,时间为12。 分钟,每日或脑日一次,15次为一疗证。

8、背利先疗法:

半面或全部背部都可並用军形电敌,从 肩部到腰部或从脊柱的腋后线,是环形凝转 移动,采用中等贫电压,时向为20分钟, 每日一次,6~15次为一介程。

9、恋面和新殇的治疗法:

甲、选州军形电狱,在范面以濒扬时印 心半径为7~10厘米的范围内,续慢移动, 进行治疗,最后可以在范面或溃疡面上刺激 几下,即结束。在范围的周围及肤上用中等 ~14~ 並电压,在彩面上时宜用弱电压,时间为12分钟,每日一次,15~20次为一疗程。 (被包含的彩面应打开后升进行治疗,治疗后宣训包扎)。

乙、在州面或沧海疡面的相应神经反射 节枝是行治疗,活助反射的作用,依绝思辞 的生程改变,以达到治疗目的。

10、阴道治疗法:

病人学卧床上, 两腿分开, 原关节微唇 (除下碧上园枕), 用消毒的闭道电设余以 消毒的凡士林, 轻轻插入阴道约8~10厘 米, 然后将把柄圈定于海人一阕的大腿上, 不便其移动, 州重应使消人而只热码, 每次 10分钟, 每日一次, 20次为一疗程。

11、肛门直肠治疗法:

 剂量之病人应有该热度(一般都需给予量的 电压)(治疗中病人不宜咳嗽或打喷嚏,因 腹压运加时电极可能会脱出,形成烧伤), 治疗时间15分钟,每日或隔日一次,15 ~20次为一疗程。

12、上肢治疗法(包括肩胛骨及胫后区)

选用荤形电极,从顽后沿肩胛带,上臂, 前臂,至手的顺序慢慢星环形移动,用中等 量电压,时间为15分钟,每日一次,15 ~20次为一疗程(两上肢时应先进行一侧, 然后再进行另一侧)。

13、下肢治疗法:

选用荤形电极,从股股沟沿大腿至足趾, 居倒则从臀部开始,或单独的在下肢的某一 部位,最慢的旋转移动(会洲部应避开)。 用中等重电压,时间为20分钟,每日或隔 ~16~ 日一次, 20次为一疗程(根语不向情况, 可延长至30分钟)。

五、共鸣火花电疗的操作步骤:

- 1、此机电源220伏,50 赫交流电。 输出电压为20 EV,频率为187 EV左 右。
- 2、接通电源, 在长通电泳前, 电源开 关应于"断"的位置。
- 3、将选妥的玻璃电影,用酒精消毒后 安量在电极把祸上。
- 4、治疗前于患部应涂以常石粉,以凉 少玻璃电极移动时,对皮肤的唇头,如有汗 时应将汗擦干。
- 5、将电极放于治疗钟位,注意:使电 数与皮肤容切接触,然后开启电源,被结医 生所需的重剂,将旋扭徐徐移动,至患者有 微潮感。

~17~

- 6、欲读得最强之刺激,可将被鼎点离 开少许,此时即产生丝丝的紫色火花,射入 患处。
- 7、使州完毕后,先将电源开关救回 "新"火花器浮止。再将电源拉脱,取下玻璃电极即可。

六、共鸣火花电疗的注意参项:

- 1、使用时,手勿超过胶木手柄上的红线,以防触电。
- 2、治疗时,患者禁止接触金属导体, 除去身上的金属物品。
- 3、治疗时,除患者外,他人不可接触 玻璃电板,亦不可与思省设融,治疗机的导 线,任何人不得按触,以免放电。
- 4、治疗时,局部有汗或其他水分时, 应採干后再治疗,患者头发禁止擦含大量酒 精的生发水。

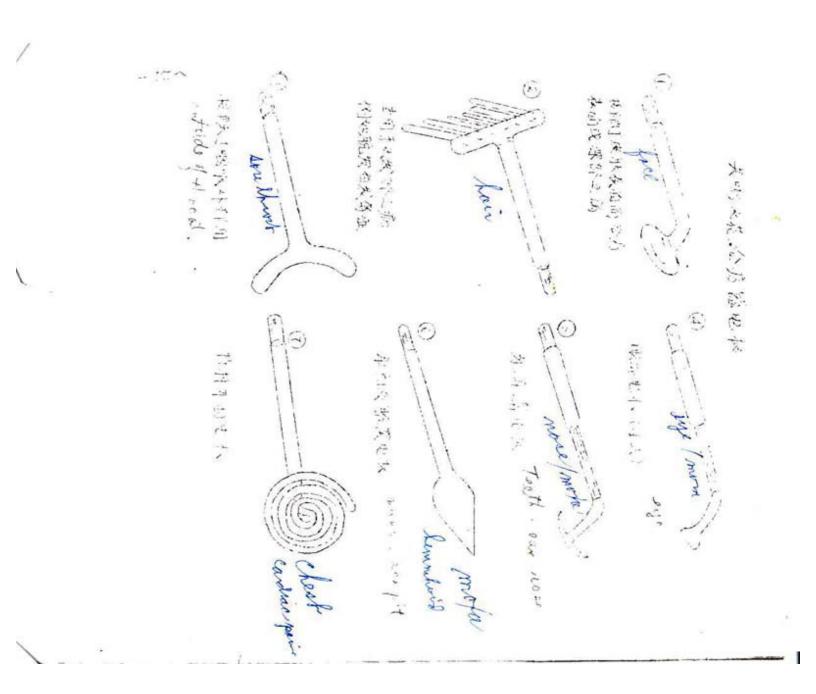
~18~

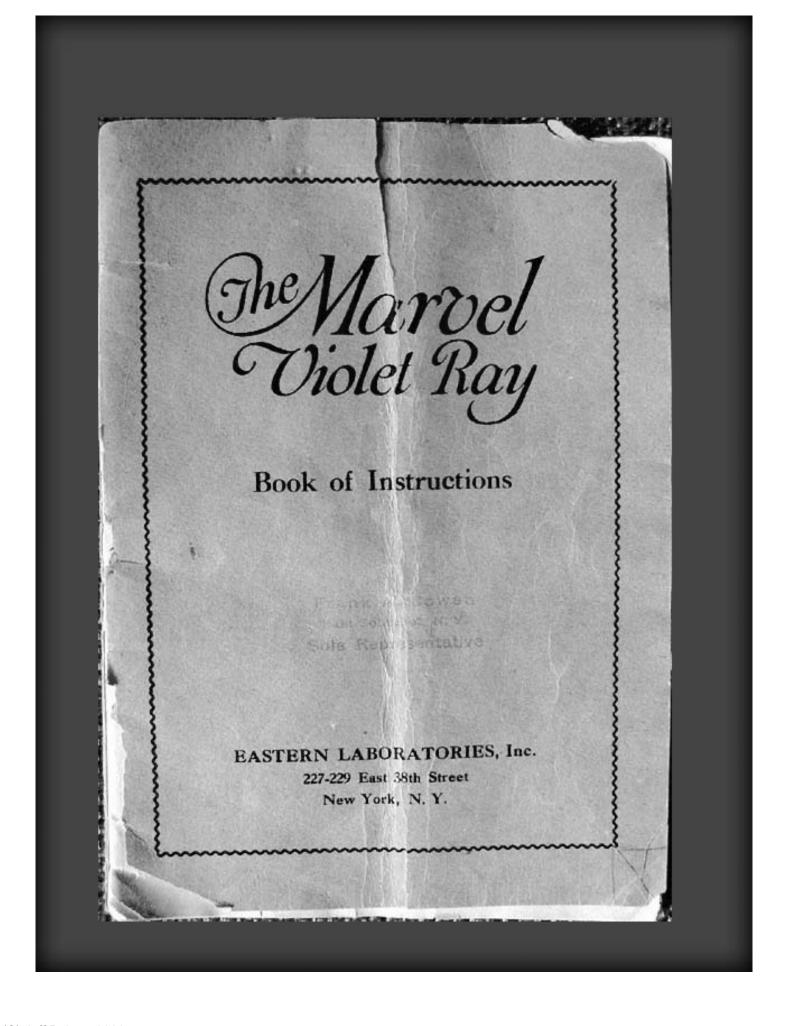
- 5、头、吸及面部治疗不要原对石粉,除 除豆炒、防道治疗应涂儿士林外,头地泻耳、 於胚不宜涂儿士补。
- 6、直向治疗局,应先行小宣寇团,使 直向治型。
 - 7、体腔治疗时应深消消剂。
- 8、头部治疗中如四电重过大可议头昏时,须即停止治疗,并休息一、二日后再继续治疗。
- 9、用过的电板在电流关闭及品离手柄后,可进行润滑消毒。但必须注意勿将润滑流在玻璃管与金属接合地方,以免风头。再用时必须待汹精全部干燥后方可再用。
- 10、被动电极消毒不宜用煮沸,可用 剂清搽拭, 溶腔治疗后之电极, 可用热水清 洗后, 补用酒精消毒。
 - 11、疗程一般以15~18次为一疗 ~19~

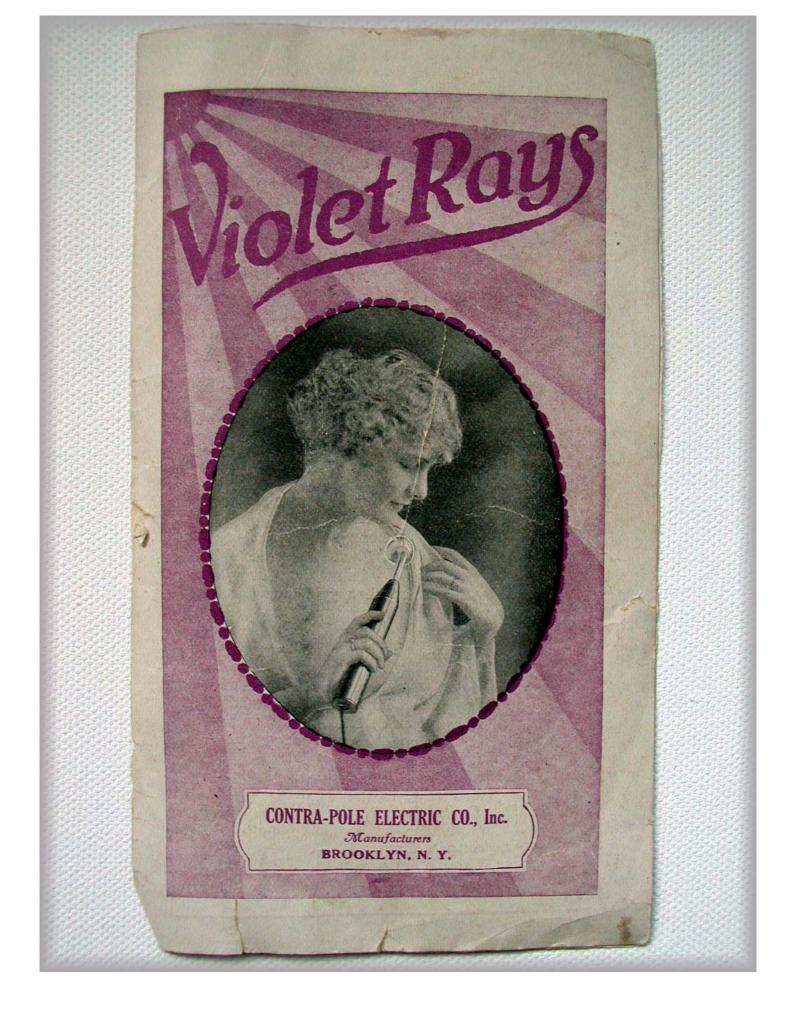
在,时间各部不同,均在5~10分钟,但 在体腔内治疗一般均在2~3分钟为限。

- 13、此仪器使用,每次不宜超过十分 钟,以完影响机内线出之寿命, 连续使用, 每次使用中间必须距离相当时间, 使线固有 冷却之机会为妥。
- 13、机器上旋扭如有松落时,必须将 旋扭装设后再行旋转,以单安全。
- 14、在使用 4 号电极时, 先将电极放 入治疗处, 捋行开启电源开矣。

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THE Contra-Pole Violet
Ray Machines at last
bring to everyone's
home and within everyone's
reach the health-giving qualities of electricity. Its
agreeable, painless and exhilarating ray of electricity
will bring to the pallid cheeks

the ruddy glow of health. This natural remedy will beautify the complexion; restore per-

fect blood circulation; build up and develop any part of the body, remove superfluous flesh, and relieve pain. Medical electricity, as the Violet Ray is sometimes termed, is the most successful and scientific treatment for the hair and scalp. Conscientious applications with the Contra-



Pole will restore the luster and bring new life and vitality to the hair.



When your nerves are on edge, when you are completely tired out, or your vitality low, then you can appreciate the relaxation from the gentle cellular electrical massage given by the Contra-Pole Generator. Rheumatism, lumbago and neuritis, the bane of old

age, and headaches find immediate relief and ultimate cure. Sprains, stiffness of joints and neu-

ralgia disappear after a short treatment. Lassitude, irritation, indigestion, fatigue and insomnia yield readily to the action of the Contra-Pole Violet Ray. For muscular paralysis, gout, constipation and indigestion, there is no more effective treatment than the





Violet Ray, and as such, it has been endorsed by the medical profession.

The Contra-Pole Violet Ray generates enormous quantities of ozone. When applied, it drives the ozone into the tissues of the body, thus enriching the blood, arousing circula-

tion, destroying germs, and instilling vigor into the tired body. When it is inhaled into the lungs

through the ozone attachment, it is the best method known to medical science for the relief of colds, catarrh, asthma, hay-fever, anæmia, and influenza. It is one of the most helpful remedies for Influenza, and is of great assistance in Pneumonia.



There is absolutely no danger, pain or electrical shock in the use of the Contra-Pole.

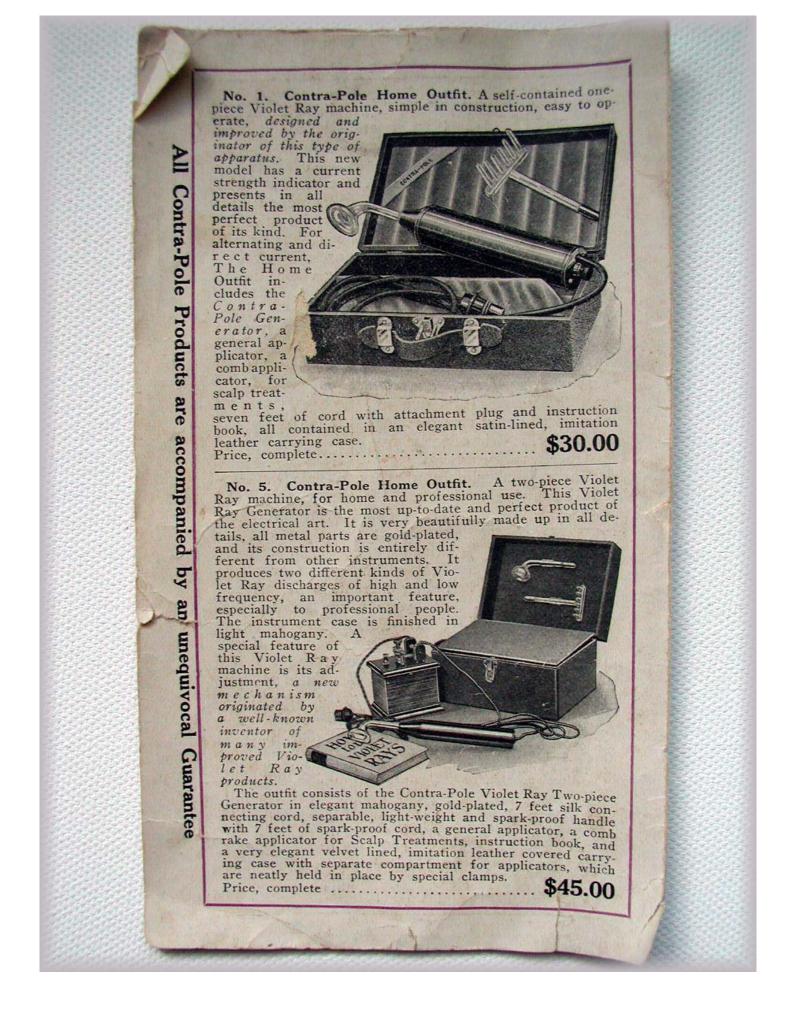


The method of treatment is simple—it need merely be attached to any electric light socket, direct or alternating current, in the privacy of your own home. A Contra-Pole in your own home is the cheapest form of health insurance.

Machines are endorsed by prominent physicians.
There is no danger in their employment.

Diseases benefited by ContraPole Violet Rays: Asthma, Barber's Itch, Boils, Blackheads, Catarrh, Chilblains, Colds, Corns,
Constipation, Dandruff, Deafness,
Earache, Eczema, Eye Disease,
Falling Hair, Hay Fever, Headache, Goitre, Insomnia, Lumbago,
Nervousness, Neuralgia, Neuritis,
Obesity, Pains, Paralysis, Piles,
Pimples, Pyorrhea, Rheumatism,
Skin Diseases, Sore Throat, Sprains,
Tonsilitis, Whooping Cough, Writcr's Cramp.





INSTRUCTIONS

FOR OPERATING VI-RAY-O HIGH FREQUENCY GENERATORS

READ CAREFULLY

First. Screw plug on end of cord into a convenient electric light socket. Then insert applicator into end of Generator (not too firmly.) Turn current on at lamp socket and Vi-Ray-O is ready for use.

Second. Turn adjusting screw at bottom to the right until you hear a humming sound and faintly see the Vi-Ray-O Rays in the applicator. Then place applicator upon that part of the body which is to be treated. To increase the current turn adjusting screw to the right. To decrease the current turn adjusting screw to the left.

Third. Start treatments with a weak current and gradually increase it.

NOTICE

Every Vi-Ray-O is thoroughly tested and adjusted before leaving the factory. Your Vi-Ray-O should work satisfactorily when you connect it to the lamp socket and turn the adjusting screw to the right.

In case it does not start, do not at once think the trouble is in the machine. It may be that the plug is not making good contact in your lamp socket. Be sure that the current is reaching the instrument.

This generator is fully guaranteed. It is not liable to get out of order, but in case it does, do not ship it to us until you have first written explaining as fully as possible how your Vi-Ray-O behaves. We may be able to tell you what your trouble is and thus save you needless express charges.

Under no circumstances take your Vi-Ray-O apart or permit anyone else to do so. It is at your own risk, if you do.

CAUTIONS

Do not use any hair tonic when treating the hair. Use only Vi-Ray-O High Frequency as a tonic.

Do not take a treatment in a bath tub.

Do not leave the instrument with current turned on—unscrew plug from lamp socket when through with treatment.

Do not bend cord sharply at point where it enters Vi-Ray-O. It will break in time, if you do.

Do not hang instrument up by the cord.

Do not turn adjusting screw with one hand while holding glass applicator with the other—a shock will be the result, if you do.

Eight to ten minutes should be the limit of any treatment. The instrument should be allowed to cool down before another application is made.

The vacuum in High Frequency applicators changes with prolonged use because some of the rarefied gas particles, disappearing under the action of Vi-Ray-O currents, become whiter and of a greenish yellow color. Any applicator which has reached this state can be re-exhausted by us at one-half of the original cost. Your Vi-Ray-O applicator is then as good as new.

All Vi-Ray-O applicators are made of the finest glass obtainable and should be handled with the greatest of care. Please note that it is impossible for us to guarantee applicators.

When ordering applicators state definitely number of applicator as given in our electrode circular which accompanies all machines. Add 10 cents to your remittance to cover parcel postage and insurance on your order.

WESTERN COIL & ELECTRICAL CO.

RACINE, WIS., U. S. A.

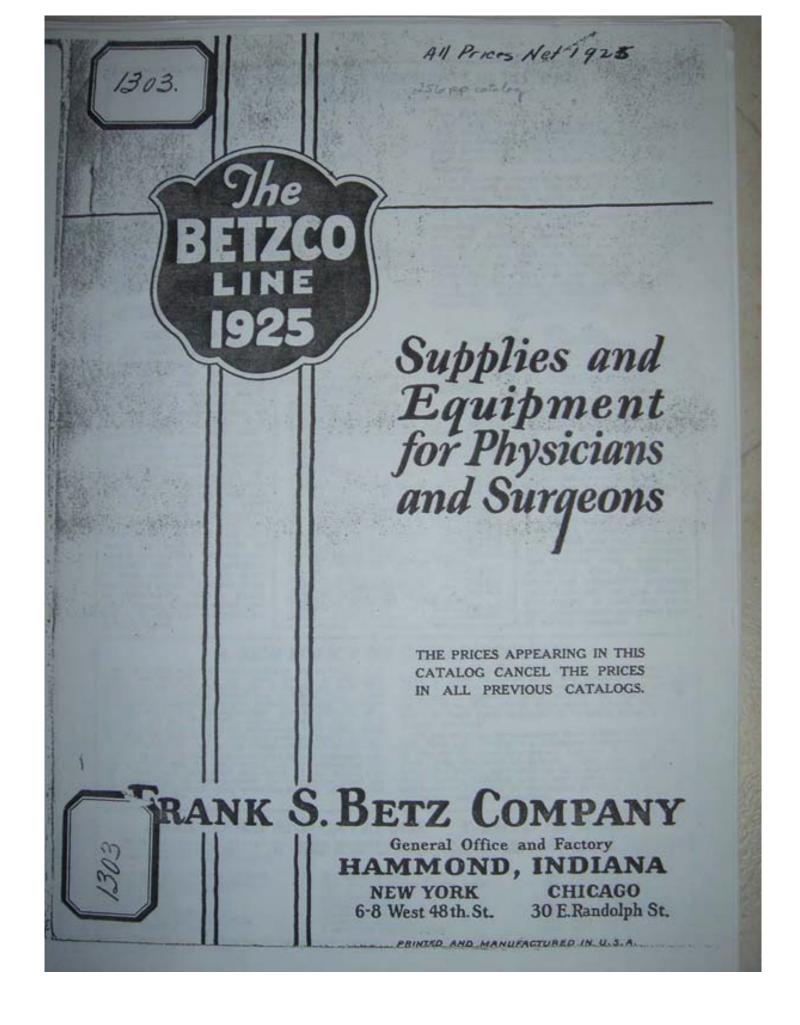


	Names of friends whom you think would be
	interested in a Vi-Ray-O
	•

ail this card	filled out on both sides to Western Coil and Electrical Company,
Racine,	Wisconsin, U. S. A. and get a guarantee on your Vi-Ray-O
	(Over)

	umber of Type		
Purchaser Sign Here			
Street Address			
of a n	100	The state of	Se deber maker in
Date of Purchase			
From Whom Purchase	d		
	ame		2
	City and State.		
	(Ove	er)	





TIM THRIFTY ON ECONOMY IN BUYING DIRECT BY MAIL



THE APPEAL OF LOWER PRICES

While low prices are constantly used as balt for the unwary by unstable and unscrupulous houses dealing with the physi-cian, we fully appreciate that by far the greater number of physicians must be offered some greater appeal than price alone.

In making our prices we have kept a watchful eye on quality. The economy therefore of buying Betzeo Producta, wholesale, direct by mail, stands out even more sharply when the prices are considered against the back ground of guaranteed quality and service. The present prices of-fered are the result of long sustained and exhaustive effort to search out merchandise and raw materials that can be purchased in large quantities at the most reasonable prices. Reduced costs of manufacture, with a single small margin of profit added, permit us to offer you the most attractive values.

Dear Friends:

You have heard a great deal said and have read much that is published regarding Thrift. Real, genuine dyed-in-the-wool Thrift does not mean parsimony. Rather it means saving—saving that which might otherwise have been spent foolishly.

To save—to economize—to practice thrift you do not hoard dollars, but save them by purchasing wisely, thereby making your dollar buy the

most.
You know friends, "Thrift is common sense in spending." You can spend your dollars wisely and save through economy by purchasing your surgical instruments, dressings and general supplies direct by mail—the Betzco plan of doing business direct with you is safe and satisfactory. Under this plan you buy your supplies at prices which do not include several profits to jobbers, middlemen, agents and salesmen. Your dollar brings full value and then some.

Yours for a well spent dollar.

Timothy Thrifty

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IMPORTANCE OF GOOD QUALITY

The most acrutinising care has been exercised in the selection of the lines of merchandise cataloged berein. Throughout we have insisted on the highest standard of quality for each line of merchandise represented. This guarantees to you merchandise of a quality second to none.

A high standard of quality combined with convenient and practical design has made it possible for us to offer finished merchandisc meeting every requirement of modern office practice. Our broad and unqualified guarantee merely assures you that dependable quality is built into every Betree Matrument and every piece of Betsco equipment.

A NEW POLICY ON CASH DISCOUNTS

An intensive study of merchandising direct to the consumer has brought out the fact, that it is extremely unfair to allow a discount for payment of cash with orders, or where such orders are shipped C.O.D. Such a system of discounts works a decided hardship on regular customers who purchase their merchandise on open account, and pay their bills promptly when due. As a general rule, it is a foregone conclusion that where large discounts are allowed for cash, the merchandise is greatly over-valued or not up to the proper standard of quality. In refusing to allow cash discounts in our general calalog, we feel that we are placing all purchasers on the same basis, and that good customers of the house who are purchasing on epen account, do not suffer from the great disadvantage of being over-charged, or of receiving poor merchandise.

Years ago, when the Frank S. Betz Company started in business, surgical instruments and equipment were sold at an enormous profit, making it difficult for the average physician to properly equip himself for practice. We proved then, that prices were much inflated, and after years or work, have succeeded in bringing prices to their present low level.

We are still the price-makers from whom other dealers take their cue. There is a tendency among some classes of dealers to meet our prices, but not to furnish the same high standard of quality. Now, that prices are lower, we find it necessary to turn our energies, not so much toward fishing prices but rather in keeping the merchandise supplied by the dealer at those prices, up to the proper standard of quality.

FREE BOOKS AND CATALOGS

Yours for the Asking

Physicians book No. 25 does not include the complete line of Betzco products. Many special catalogs and Booklets are published showing the balance of the merchandise which we handle. We shall be glad to mail you any of the following editions:—

Anesthesia and Analgesia Hooklet. Heauty Parlor Equipment Book. Bed and Hedding Catalog. Bental Rulletin. Bental Purniture Book. Drug and Pharmaceutical Book. Elastic Stocking Book.

Electrical catalog.

Eye, Ear, Nose and Throat Book.

Hot Air Booklet.

Hospital Book.

Hospital Bulletin.

Invalid Chair Book.

Kitchunit Booklet.

Laboratory Outht Booklet.

Medicine Cabinet Booklet.
Orthopedic Book.
Radiator Cover Booklet.
Radiator Cover Booklet.
Surgical Bulletin.
Therapeutic Lamp Booklet.
Timothy Thrift Bargain List.
Veterinary Book.
Wall Cabinet Booklet.

BETZCO Products are unconditionally Guaranteed



HE high quality of Betzco products is firmly established by an unconditional guarantee. In this way, we assure you of a full measure of satisfaction. You are protected from every angle—merchandise, service and price must each win your approval. This protective feature removes every objection to enjoying the obvious advantages of buying by mail.

WHEN YOU BUY BY MAIL: You save time because you can shop through the pages of our catalog right in your own home in lessure moments, you enjoy the advantage of a wide choice in variety of equipment, you are saving yourself the cost of dealer's profits and salesmen's commissions, and you are assuring yourself complete satisfaction by buying merchandise that must

please you because of an unconditional money-back guarantee.

Our many thousand physician customers work under the similar conditions. They have the same problems to meet, the same desires, the same needs. Our merchandise, our service, and our prices will their received and there.

Do Your Buying by MAIL its Safe and Satisfactory

Those who are not acquainted with our methods will be interested to learn that we have in operation a plan of doing business, direct with the physician by mail, that makes it just as safe and convenient for him to buy from us as though be lived just across the street. Every item we sell is unconditionally guaranteed not only to be of good material and construction but to least it is unconditionally guaranteed not only to be of good material and construction but to satisfy in all ways. It must please you or we will not keep one cent of your money. Our large stock, marketed on an economical selling basis that saves you money, is no farther from you than your postories.

SATISFACTION or Money Back

(6) WE GUARANTEE TO RETURN YOUR MONEY PROMPTLY—EVERY PENNY OF IT WITHOUT QUESTION IF YOU ARE NOT WELL SATISFIED CAPITAL

Merchandise made special to customer's specifications or measurements is guaranteed only against flaws in material or imperfections in workmanship, and if correctly made to the customer's specifications is not subject to return.

The Factory behind





THE COAKLEY-McKINZIE LAMP

This lamp is very efficient for general office illumination, and for direct illumination in special work such as nose, throat and eye work. It is a very satisfactory light for the specialist as well as for the general practitioner.

Monuted on Plat Blaze

Plat cast base mounted on casters, will slip under the edge of other sieces of furniture and allow the lamp to be placed conveniently just where you want it. Lamp standard telescopes into the base, allowing it to be placed at the most convenient height.

Has McKinzie Condensor

Pitted with standard McKinzie con-densor, a feature that adds greatly to its efficiency, allowing the volume and intensity of the light to be con-trolled by the operator at will. It is adjustable to any angle.

The Coakley-McKinzie Lamp is fin-issied in white enamel with nickel plated fittings. It operates on 116

Coakley-McKinzie Lamp 9M1174. He volus. WL. 10 lbs.

PUMICATORI

CONVENIEND

FUMIGATORS

An improvement over any disinfecting device, and of highest efficiency. Pry of the friction tid and light the wick in the fuel pan. Absolutely free from all fire danger. A simple, rapid, convenient and economic method of liberating any required amount of Formaldehyde flas in a room. Gas in a room.

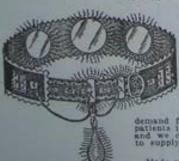
2M250G. Contains over one cance formaldshyde. For 1.000 cubic feet of space.

Price

WL 2 oz 4.00 2MESO7. Contains over 15 ounces formaldsbyde. 1.500 cubic fret of apace. Price, each .. \$0.60 Doz. 56.00 Wt. 3 ez

2M8508. Recommended for 1.000 cubic (eet. Each 50.90

2M8509. For rooms of 4,000 to 5,000 cubic ft. Each \$1.20 Dozen WL. 6 OF



GALVANIC ELECTRIC BELTS

While we have never recommended the use of electric belts, we carry them in stock be-

cause there is a demand for them. Prequently patients insist on having them and we carry a limited suck to supply to their physicians Style A

Made of plosh as illustrated with spiral suspension, male or female.

EMT135. Btyle A Belt complete. Wt. 20 oz ... \$7.50 btyle B. Bimilar to style A except with sack suspension of female.

2MY156. Style B Belt complete. Wt. 22 oz \$7.50 in ordering give waist incaparements.

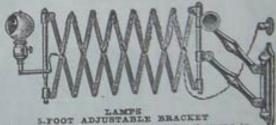


ALCOHOL GAS STOVE

For hospitals, doctor's ofnie, namerica camping Makes its own gas from de-natured algebra. Wickless smokelses and odorless. Many used for light house-

ALCOHOL

2M1276. Glogan's Improved Mingle Alcohol Stove for aterilizers, nurses, sick room, shaving. Bolls I quart



Can be raised or lowered or closed and awang to the wall. The leader for eye, ear, nose and throat work. Finished black japan.



ZM1251. Ricctric Office Lamp, for any angle or position. Has 35-inch sweep from wall. Folds up out of the way when not in use. With cord, plug and electric lamp \$9.00 Wt., 6 lbs.



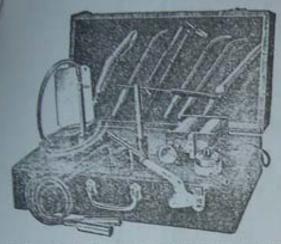
Universal Condenser. Foreye. ear, nose, throat work. Can be carried in satchel.

Each \$3.00 WL. 2 lbs.





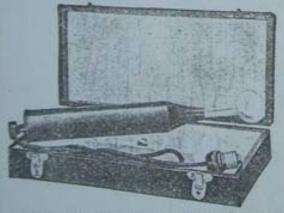
UNIVERSAL HIGH FREQUENCY **APPARATUS**



Dependable, portable apparatus for service on any 110 voltage. For hyperemia, treatment of high blood pressure, etc. Provided with heavy set of coils and condensers which deliver, under perfect control, wide range of purrent. With this apparatus, the vacuum electrodes may be barely filled with violet ray, or they may be caused to deliver a spark of greater or less intensity at the pleasure of the courator.

Guaranteed against defects. Purnished complete in earrying case with I high frequency electrodes. Fulguration, handles, connecting cord, etc., and operating instruc-

SPECIALIST'S HIGH FREQUENCY OUTFIT



One piece type. Entire outfit contained in handle. Light reight, and very serviceable for superficial stimulation or lotet Ray application. Purnished in scal-grain carrying ass with two electrodes and connecting cord and socket. perates on 116-valt current. Gives long natisfactory ser-

MP42. Specialist's High Frequency Ontfit..... \$12.76

BETZCO ELECTRO-THERAPEUTIC CABINET

Light, compact outfit. Early carried Has all the modal advantages of the larger outfits. Delivers Tesla High Prequency, Fulguration Ocone D'Arsonval AutoCondensation, Hot Preint Castery, Diagnostic and Sinuvoidal Modalities.





9M213. Betsee Electro-Therapeutic Cabinet, complete with all accessories as shown in cut to operate on 110 volt 50 Cy. Current S115.00 cash with order; balance in 10 easy monthly payments.
9M215. Same as 9M215 less accessories but supplied with connecting cord.

HIGH FREQUENCY AND VIOLET RAY GENERATOR



Simple Portable Operates on either A. C. or D. C. Capacity, 66,000 volts, but adjusts down zero potential, ranging from heaviest High Frequency Currents for Massage to the extremely high Oscillation required for fulguration or urethral application.

9M204, High Frequency and Violet Ray Generator, complete with 2M438 electrodes, handle A and electrodes B. C. D. E. F and G. one 2M1405 conducting cord. \$32.50

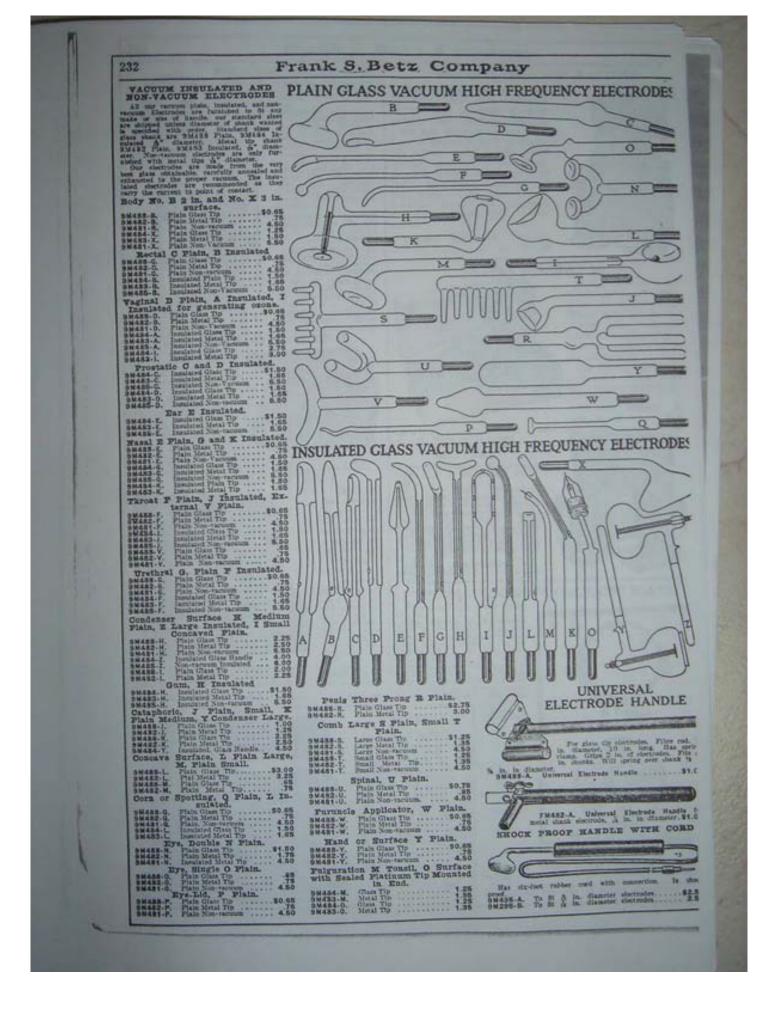
5M206, High Frequency and Violet Ray Generator with Cautery. Same in design and construction as 3M204, Comes complete with same equipment with addition of 3E1517 Cautery Handle, two 9E1500 Cautery Knives 3E1500 Diagnostic illuminator, complete with tongue depressor and cords and one 3E427 fulguration electrode. \$43.50



POPULAR VIOLET RAY HIGH FREQUENCY GENERATOR

An efficient, compact, durably made and perfectly insulated generator—guar-anteed for one year against all electrical or mechanical defects. Improved con-struction—the primary cell now installed in case, not in handle.

The magnet mounted in handsome carrying case, size 10%x5%x2. Case lined and covered with imitation leather, equipped with leather carrying straps; nickel plated fittings. Supplied complete with large surface electrode, cord and plug for connecting to lamp socket.



POLYSINE GENERATOR Delivers Galvanic, Sinusoidal and all of the wave currents which are practical in every physician's practice. The rapid sinusoidal current is valuable for the relief of pain. It possesses a marked sedative and analgesic action. The polysine generator is designed to operate on alternating current. It generates galvanic and sinusoidal current of the most efficient character. Write for special literature and technique. 9Mil44. Polysiae Generator for 110-volt D. C. without stand SMI145. Polysiae POLYSINE GENERATOR

smil45. Polysine Generator for 110-voit 50 cycle A. C. with-out stand . \$400.00 9Mil46. Mahogany Insished metal stand for apparatus addi-tional . \$35.00 9M1147. Mahogany wall bracket . 55,00

GALVANIC AND SINUSOIDAL

Delivers perfect gal-vanic current, on 110 voit D. C. On A. C. 116-voit delivers a rapid sinusoidal cur-rent.



ULTIMA SINUSTAT, No. 4



Combination galvanic current apparatus consisting of a generating set for converting A.C. to D.C.

A conven-

WILSON'S GALVANIC BATTERY

Equipped with nine dry cells. Carrying case size, 10x9x12 inches. Has ten point selector switch, two primary binding posts and large accessory box Comes complete with conducting cords, metal handles and sponge electrode. For light galvanic work and treatment of facial blemishes, removal of hair, waris, moles, etc. Lights, controls small eye magnets, diagnostic lamp, and cystos-

9M1283. Wilson Portable Battery\$26.00



ULTIMA SINUSTAT No. 3



Equipped with a me which gives a thoro-slow sinusoidal curr When operated on A. affords slow sinusoi rapid sinusoidal, high t sion sinusoidal, and seing sinusoidal.

On D. C. affords al sinusoidal, rapid sinus dal, surging sinusoidal

galvanic current. 9M1165. Ultima 23 stat, No. 3.....\$100

ELECTROLYSIS BATTERY

For Removal of Superfluous Hair and Other Pacial Hiemishes.

Six Dry Cells. Handsome case, with compartment for accessories Comes complete with Conducting cords. Needle Holder, Hayes Needles, Steel Broaches Forceps, Magnifying Glass, Hand Sponge Electrode, Handles and Dises, and a copy Hayes' Electricity in Facial Blemishes.

9M1212. Electrolysis Bat-

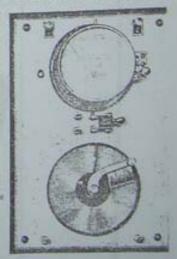


DERMATOLOGIST'S GALVANIC PLATE

In using this plate from 110 volt D. C. a. 15 C. P. Lamp should be connected with it in series. Has improved Milliamperemeter with scales from 0 to 10 and from 0 to 500, pole changer and fire-burned rheostat mounted on marble slab 12x15 in, Furnished complete with 6-ft. \$M1409 conducting cords two metal handles, \$M1643 and one \$M1643 handles,

Sponge Electrode.

Comes Complete With Accessories Listed Above



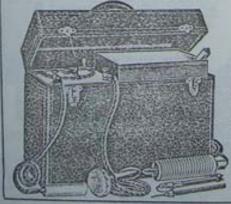
2Miles. Dermatologist's Galvanic Plate, frervice on 110-volt D. C. or cells ... 340.5

For Service on A C. it may be used we electrolytic rectifier, or motor generating as

PORTABLE GALVANIC BATTERY

Operated from 1: Dry Cells, controlled by a selector cell switch so arranged that any number of the 12 cells can be used. Case, well constructed; size, 17x11x17 inches. Has box for accessories. Ideal for removal of hair, warts, meles. Operates cystoscope, head lamp, eye magnet, diagnostic lamp, etc.

9M:282. Complete with metal handles and pa-tient's cord825.00 Wt., 30 lbs.





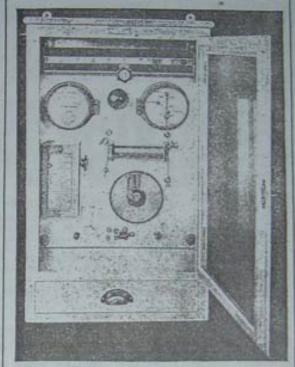
CENTURY MODEL GALVANIC AND FARADIC WALL PLATE

Low priced equipment for galvanism and tarad-ism. Needs no voltage controller. Used extencontroller. Used exten-sively in sanatoriums. In-struments are mounted on 18x24 inch marble slab, and are same high grade as furnished on larger plates. Operated by cells or D. C. and on A. C. by using a Rectifier or motor generating set. motor generating set

9M1117. Century Model plate mounted in all steel wall cabinet (same as shown in 9M1124 cut) white enamel ... \$125.00

9M1119. Century Model Table Plate, mounted on tubular steel stand with accessory drawer finished white enamel. The instruments are mounted on a marble slab 16x16 with polished beveled edges

.....\$115.00 9M1120 Century Model Table Plate without stand\$75.00



CALUMET GALVANIC FARADIC BATTERY AND PORTABLE

DR. POPE'S MODEL GALVANIC AND FARADIC BATTERY

Embodies special features to improve service and number of modalities available in limited space. Instruments of precision, designed for efficiency as well as for the user's convenience, as supplied with this plate. Write for circular describing technique and special features of this apparatus.

9M1124. Dr. Pope's Model Galvanic and Faradic Battery in steel Wall Cabinet, white enamel\$150.00

GRANGER PORTABLE OUTFIT



STANDARD FARADIC BATTERY

Heavy coil, gives primary and secondiry current, administered singly or in
ombination. Operates on two dry cells,
which are included. Has selector switch
to one or both cells may be employed
neluded are: Conducting cords, two
netal handles, one sponge Pad with
andle and metal foot plate.

Secondard Faradic Batters

conducting
the conducting cords, two
netal handles, one sponge Pad with
andle and metal foot plate.

Secondard Faradic Batters



complete with accessories: 1 goltre treatment elec-trode, 1 pair 6-ft. heavy



Standard Accessories for Use in Treatments with Galvanic, Sinusoid: Faradic, D'Arsonval and Diathermy Currents

CONDUCTING CORDS



1408. Light, timed, allh-content) comforting for Paradic and Sintential Pr. 3 ft. 50,50. ft. 50,68. Pr. 10 ft. 50,30. 2814400. Heavy conducting and. Times mines with support strands. Pr. 4 ft., \$0.65. Pt. 6 ft., \$0.75. Pr. 10 ft., \$1.00.

Cable of the record sire. Ruther overed. Fr. 3 h., 50.90. Pt. 3 h., 51.18. Pr. 10 h., \$1.50.

DIAGNOSTIC LAMP CORDS

9M1415. Cords with tips or snaps and sockets. Fits any Betzee Cyatoscope or Disgnostic Lamp. Necesare to be lighted from galvanic bat-



CORD TIPS, UNIVERSAL CONNECTORS

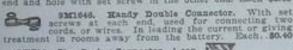
standard taper tip which will fit any of pur electrodes.

omicio. Universal Cord Tip Connectors for connecting any wire or conducting cord to standard make electrodes.....\$0.40



9M1620. Universal Connector. Used to connect any cord tip or wire to him post having nut and scrow connecti Each

SMISS. Gord Tip Connector. To connect any make conducting cord or wire to a standard serse tip electrode: equipped with threads in one and and hole with set acrew in the other end. Each 30.40



omiroz. Sing Spring Connector. A convenient way to connect large sheets of matal. Equipped with spring clips, which hold it firm to the plate. Each. . . \$0.20



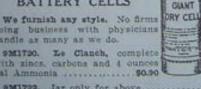


9M1618. Binding Post. Complete with set screw.
also screw and washer at bottom to fasten binding
post to base. Size \(\frac{1}{2} \times \frac{1}

BATTERY CELLS

doing business with physicians handle as many as we do.

9M1720. Le Clanch, complete with zines, carbons and 4 ounces





9M1722.	Jar only for above
SM1723.	Carbon only for above
93K1724	Carbon only for above. Zine only for above. Sal Ammoniae for above per lb.
9M1725.	Sal Ammoniac for above, per Ib
9MI 730.	Giant Dry Cells, No. 6, each
9MI1731.	Same as above, 40 for
9M1736.	Columbia Dry Calls, No. 4

SURFACE METAL ELECTRODES

In giving electrical treatments it is important to co a large surface. For this purpose a complete select of large surface electrodes is offered.



3M1687. Poot Plate Electrods. Nickel will not corrode, tarnish or rust. Size will not correct Equipped with cord tip c nections. Each.

square foot

9MR94. Eheet Aluminum. In strips 12 inches wide a
ength desired; about 1/16 inch thick. Per square ft. \$1
9MR970. Bind Straps. For holding diathermy electro
tight to the body. Per set of four.

FLEXIBLE MESH ELECTRODES







9M1772. Diathermy Alumini
Hand Electrods for diathermy
other local treatment. He
plate in close contact with i
paim and allows a free movemof the fingers. Equipped w
binding post cord tip connects
Sometimes used with sheet
most felt or cotton placed i
tween metal plate and skin.
Each

renting to	the con	discisse our	4							
M1752 N1754 N1755 M1755 M1755	Same,	Olemeter 2 loctors 3 loctors 4 corbes 3 lectors	IN CLASS	POST.	Eart			120		
18		SELECTS.	Disc	Elec	ctrode	.50	T	stiz	nn.	į



s title beater skin moistened. Three sizes, it inch and 1's loches in diameter. Strupped mickel plated. Has connection Universal handle. Excellent in all kin massage treatment. Each. kinds

BM1677. Ball Electrode for treatment along the same lines as the 3M1678 electrode; made in three sizes: % inch. % inch and 1% inch





9M1687. Hrbs' Electrods. P treatment of small muscles of the cye. Made in two slars: 1/2 and inch. Connection to 5t universe handle. Each 50.

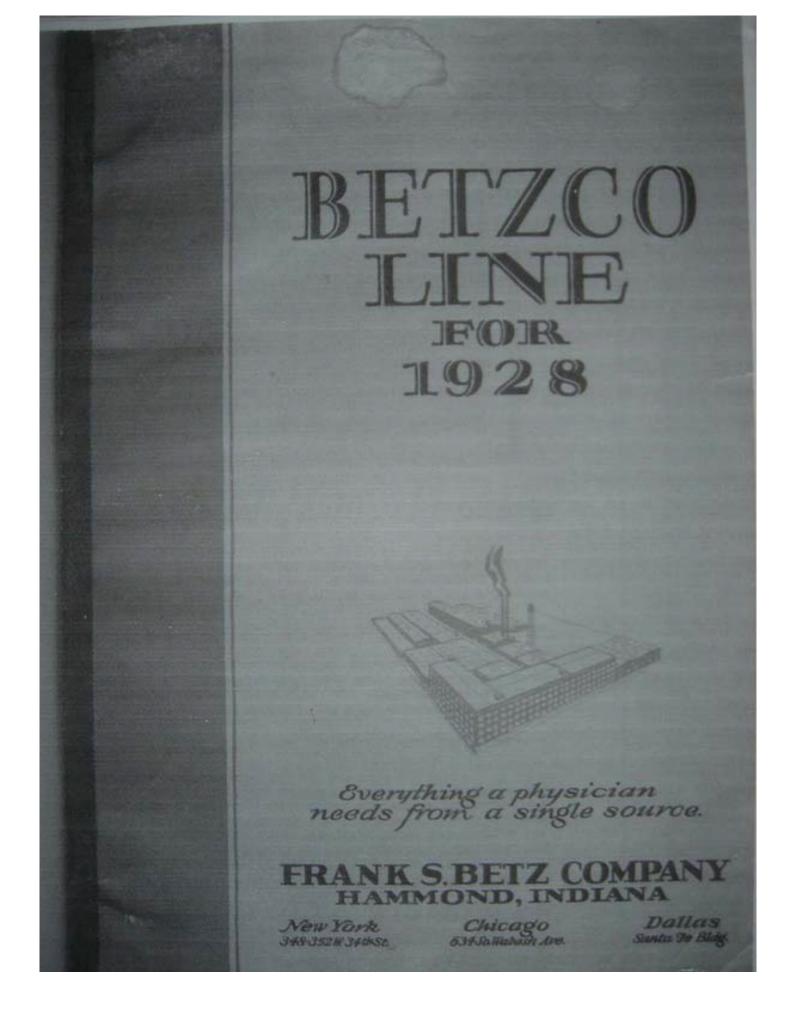
SM1670. Metallic Brush Elec-trode. Made from fine stiff wire, has serew tip connections to it universal handle. Ea. \$1.00





her loss; Still with D.M.1634. Only with 1-mon diameter half soll-nw1638. Same as 3M1634. Only with 1-mon diameter half soll-

WHITE FOR COMPLETE ELECTRICAL CATALOG





The Judgment of 100,000 Physicians

MANUFACTURING and selling instruments and equipment for physicians is a most interesting business. Keen competition, a continual improvement of instruments, apparatus and equipment and a continual struggle of manufacturers to outdo each other in furnishing the physician and surgeon with better, more practical equipment, makes this business interesting.

This competition has helped to place American manufacturers among the world's best, and has helped to make them decidedly helpful in the development of medicine and surgery. This competition, too, has placed a heavy burden upon the leaders among these manufacturers of supplies for the physician.

This burden of responsibility falls heaviest upon that organization, which by reason of its greater size, is looked upon as one of the outstanding pacemakers.

The owners, among whom are many physicians, feel that the Frank S. Betz Company by a continual improvement in their lines, by bettering marketing conditions and by searching the world for better instruments and equipment, have lived up to the great responsibility placed upon them by over 100,000 physicians in all parts of the world, who have judged, compared and decided on Betzco furniture, supplies, instruments and equipment.

The approval of these men, many of them leaders in their chosen profession, has but spurred us on to greater efforts to produce for the medical profession better, more practical equipment to, even further, justify the judgment of these 100,000 members.

BETZCO

Going Strong Since 1895

Capital \$2,000,000.00







A WAREHOUSE and a display room in Dallas, Texas, were at first an experiment to see if we could bring Betzco products closer to our many friends and customers among the physicians of the great Southwestern section of the United States. Neither the warehouse nor the display room is now an experiment—both are proven successes which our good friends of the Southwest have accepted as a genuine attempt to give them economical service on the heavier merchandism. which we manufacture and sell.

This merchandise is shipped, under our plan, in carload lots to our warehouse in Dallas and the freight charges are absorbed by us, making our regular catalog prices on the items carried at the Dallas warehouse, not f.o.b. Dallas, Texas, instead of not f.o.b. Hammond, Indiana.

the Dallas warehouse,
Merchandise Carried
at Dallas Marked
in This Catalog
Merchandise carried
in stock at our Dallas
Warshouse is carefully
indicated in our catalog.
Only items so marked
are carried in stock for
shipment from that
point.

other merchandise shipment in our catalog is shipped direct from Hammond, Indiana (in the Chicago switching district) or New York City, N. Y.

SAMPLES OF MERCHANDISE DISPLAYED

All of the heavy furniture and merchandise, indicated in our catalog as being carried in our Warehouse at Dallas, may be inspected in our Display Room in the Santa Fe Building, Unit No. 2. A close inspection of this merchandise will indicate beyond question the superior quality of "WhiteKraft" steel furniture and of Betzco

If our business in the Southwest continues to increase in the same proportion that it has in increased since we have established our Ware house and Display Floor in Dallas, the management of the Frank S. Betz Company will eithe arrange for larger display facilities in our present location, or for a complete store and branch

Including Other Shipments in Our Dallas Through Cars

las Through Cars
the purchase of merchandise shipped by
freight, and carried in
stock at Dullas, can be
effected by arranging to
include these shipments
in our Dullas cars. Car-



A ONE PRICE HOUSE ~ Cash, Open Account and Budget Buyers

FRANK S. BETZ COMPANY is a one price house. We offer you no discash, C. O. D. or 30-day open account orders. We consider this a

this policy, neither the cash customer nor the open account customer by a discount as we find that it costs us no more to handle on a 30-man it does cash or C. O. D. orders.

merchandise is sold on the budget buying plan, a small carrying charge

O.D. and open account customers are not penalized in the prices of the by the cost of carrying and handling Budget Buying Plan (extended accounts.

certain that our good customers among the medical profession will that our policy of offering one price to all classes of buyers, is fair

Prices Subject to Market Changes

this, our 1928 Catalog, it is necessary for us to reserve the right to canless for merchandise not obtainable for any cause whatever and to reserve the

presse or decrease our prices according to markets on material, cost of manuserve other reason that makes such a change advisable. You will find that our
a never over priced under any conditions.

TAKE THE DIRECT ROAD ~

FRANK S. BETZ COMPANY manufactures steel furniture, electro-thersparatus, orthopedic appliances, sterilizers, soft metal instruments and specialties that appear in this catalog. Other merchandise shown is purchased direct from makers in domestic markets.

merchandise which we manufacture ourselves, you take the direct road them from us. You save the cost of the factory salesman, the subber's salesman and the dealer's salesman.

the merchandise which we do not manufacture, you save the cost of the dealer's salesman and the jobber's salesman, besides you get the obtained by us in buying in large quantities, made possible by our \$12,000,000,000.

Betz Company. There is the advantage of saving time and energy.

Set valuable resources. Entirely overlooking price advantage, your and energy alone is sufficient to commit you to the economy of the Betz catalog, where you can secure all of your supplies from and be absolutely sure of their good quality backed by our uncon-

METZCO METZCOLI

\$2,000,000.00

- -

ZCO HIGH FREQUENCY APPARATUS

real tonic effect of high frequency applications is well known Many use it because of its excellent results in brightening and giving them added vigor and cheerfulness. Its effect in Sreviation and in bringing the blood to the surface is also well these pages is listed apparatus for applying the high frequency

ess appliances are well made and of the type that is being used a of physicians.

ange of choice is given you so that you may use this method of our practice, with maximum results.

lifferent equipments are portable so that you may use them ur office or in your patient's home.

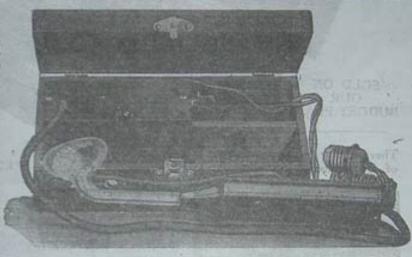


PULAR HIGH NCY GENERATOR

cratus takes the ordinary cases the voltage and the scillations. This procedure coltages to be used in treatsut the alightest pain or

call is located in the case the high frequency elecrated on page 104 can be a handle. This is a very idely popular generator and office use.

umes complete with coils, ards with plugs, heavily infucting coil, hard rubber arge surface body electrode. mlar Violet Ray High Fremerator, It A.C. or D.C. \$10.00



LIGHT MODEL HIGH FREQUENCY SET

This set is much like the set above (No. 9D246) save that three electrodes are sent with it and the Tesia coll is in the handle. Any of the high frequency electrodes illustrated on page 104 will fit this handle.

A large surface Body Electrode, a Throat Electrode and a Metal Electrode are furnished with this set. Outfit comes in a silk-lined case which can readily be carried to the bedside of your patient if so desired. It operates on any 110-volt alternating or direct current,

9DO260. Light Model High Frequency Set



HIGH FREQUENCY VIOLET RAY AND OZONE SET

A high grade instrument for high frequency or fulguration treatment. It has a capacity of about 50,000 volts and can be adjusted down to zero potential in fine graduations by a control device located conveniently on the awitch-

> All parts are well constructed and are mounted on a 6 1/2 17 1/4 = inch Bakelite base. The condenser is contained in a special case and is mounted on top of the switchboard where it is readily accessible. The carrying case is covered with black leatherette and la 11 1/2 1 1/2 1/2 1/2 1/2 inches in size. All metal parts are nickel plated and the interior of the cover is lined with rich satin.

Equipment: Ozone Generator and Bottle Ozone Inhalant. Following electrodes: Body, Comb Rake, External Throat, Eye, Spinal, All Metal Electrode. Net weight, 5 1/2 lbs. Shipping weight, 9 lbs.

Every set is furnished with a direction book carrying complete instructions and charts for operating the sets and for giving treatments. Can be used on 110-volt A.C. or D.C. \$25 DA



Sinusoidal Application



FREE BOOK

A free book containing full instruction for operating the Quatremod is sent with each Cabinet. The directions are plainly detailed and all the controls of the Quatremod are explained and their eperation clearly defined.

\$5.00 cash brings the mod to you. Test it out office for 30 days. If satisfied it, pay the balance in five Quatremod

Therapy Cabinet. \$5



High Frequency to

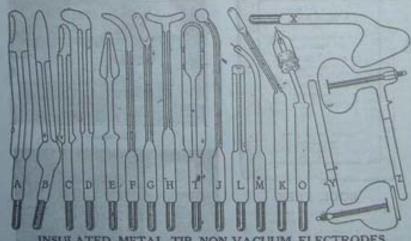
COMPLETE PHYSIO-THERAPY APPARATUS SHOULD INCLUDE BETZCO QUATRES



METAL TIP INSULA ELECTRODES

9D483. Insulated I

metal tip. A tip. A-B-C-D-E-P-G-H-K-L-M-O-X, East



INSULATED METAL TIP NON-VACUUM ELECTRODES
D185. Insulated Metal Tip Non-Vacuum Electrodes. 1/2 tip.

When Ordering Specify Number, Letter and Diameter of Shank

BETZCO HIGH FREQUENCY ELECTRODES ARE ALL TESTED AND INSPECTE

New Galvanic Set

With or Without Motor Generator

ELECTROLYSIS, GALVANIC TREATMENTS, OPERATING DIAGNOSTIC LAMP, ETC.

BUDGET THE COST OVER 10 MONTHS

all the electric modes, the constant or galvanic is the applicable and has the widest range of usefulness, he sheet anchor of the science of electro-therapy and ity one that will cause electralysis of watery solutious that driving effect known as phoresis, both described on the constant even smooth current at a polarity.

n polarity.

In mown effectiveness of regular galvanic treatment in ag pain, stopping bleeding, lessening or stimulating little makes the galvanic treatment set indispensable. The state of the page, are the most salvanic sets illustrated on this page, are the most all made for galvanic treatment and electrolysis. In these sets are made to operate and control diagramps, cystoscopes, head lamps, or any kind of electrolysic pages of the set of the se

enstruction both of the galvanic treatment sets are ally identical. The only difference is that the 9DO1195 solor generating set for converting commercial alterenter senerating set for converting commercial alterent for accessories. For this reason it is better
to use, but the size of the case is small and light
to administer home treatment. Box is only 13 ½
to administer home treatment is always available, a
length of the case is small and light
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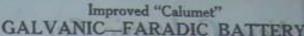
For accurate and convenient determination of the intensity of the treatments both of the new galvance sets are equipped with triple scale, deadheat wante sets are equipped with triple scale, deadheat will manage the mounted near the meter of antirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operator to turn the meter of entirely or adjust it operators in the development of an individual technique.

Both galvanic sets are sent complete as shown with full non-technical operating instructions with full non-technical operating instructions follows: 1 pair 6 ft, heavy Conducting Cords, follows: 1 pair 6 ft, he

ODO1105. New Portable Galvanic Apparatus with motor generator for use. Price \$125.00 complete with accessories.

Terms: \$15.00 Cash-Balance in 10 Months. opolios. Same as above but without motor generator and different case. Size of case, 12% in x 6% in. Complete as shown. \$75.00 Terms: \$5,00 Cash-Balance in 7 Months,

9DO1194 THE BUDGET PLAN HELP YOU BUY NEEDED EQUIPMENT



An inexpensive and satisfactory battery for giving galvantaradic treatments, operating an electric eye magnet or light diagnostic lamp or cystoscope. It is a necessity where comme current is not available.

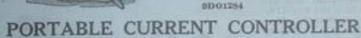
The battery consists of a set of 5 "C" radio batteries to: 221/2 volts, for electrolysis and massage work. The galvanic our generated is of sufficient power and range for removal of small eign growths, facial blemishes, superfluous hair, etc. New "C" batteries can be always bought from radio dealers and are replaced.

The strength of the current for treatment controlled by a 11 point cell selector. The context of selector switch, the faradic coil can be operate one or more cells,

Battery is sent complete in strong "White steel carrying case, 9x9x7 in, with compartment top for carrying accessories. Accessories include ducting cord, 1 pr. metal handles, foot plats sponge pad electrodes, tongue depressor and lamp.

9DO1284. Improved Calumet Galvanic and Faradic. Price.....

BD18T3 ECTROD



Provides Large Range of Modalities, Compact, Easy to Operate

The many uses and advantages of this Fortable Current Controller are briefly given below: Provides a sinusoidal apparatus on alternating surrent.

(2) provides a reliable galvante apparatus on direct current, (3) provides an ideal dyatoscope and diagnostic lamp controller on any current. (4) provides a perfect substitute for a faradic battery, without the expense of renewal of the latter, (5) can be adapted to any commercial direct current, (6) can be employed with the ordinary cell current where the commercial current is not available.

The controller is anistantially constructed and guaranteed for one year against defects in material or workmanhip. It is mounted in a strong leatherstte covered carrying case, 12 inches long, 7 inches wide and 2½ inches deep. Price includes following accessories: 3 ft. connecting cord and separable attachment plug for lamp specket, 1 pr. conducting cords, 6 ft. long; 1 Universal wooden electrode handle to fit any standard electrode, 1 felt disc 2½ in. diameter to fit above handle. 1 hand sponge pad, 3%x4% in... 1 pr. metal hand electrodes and complete set of instructions to operate apparatus.

NOTICE While these individual electric sets are not sold under the easy payments of our Built Plan, yet any order for one or more of them which amounts to over \$50.00 will entitle purchaser to the privileges of this Easy Payment Plan if he so desires. This offer does not have for orders of equipment alone, such as electrodes, etc., but does refer to orders for entire tric sets, such as are listed in this catalogue.



Standard HOME FARADIC BATTERY Ideal Home Equipment in a New Steel Case

Ideal Home Equipment in a New Steel Case

Especially adapted to the physician's office or the paties
This is a particularly good Faradic battery for patients pobenefit of Faradic attenuation. It is provided with a heavy for
benefit of Faradic attenuation. It is provided with a heavy for
both primary and secondary, or combined primary and secondary
may be obtained. The primary offers a mild current, where
and secondary combined may be regulated from a very gentle
and secondary combined may be regulated from a very gentle
to full intensity by drawing out the core shield. The batter
from two No. 6 dry cells. One or both may be sciented by the
from two No. 6 dry cells. One or both may be sciented by the
from two No. 6 dry cells may be obtained from a very gentle
for when using one cell a mild effect with a slow vioration is
and with both cells a powerful current with rapid interrupt
had. A great variety of effects may be obtained by varying the
of curvent with the core shield and rate of vibration by the
cells used. The battery in also equipped with a numbered scaindicate the strength obtained.

The carrying case measures 6 tirries inches high, is structed of steel and richly finished. A compartment is provtop of the case for housing the accessories. The trimmises
accessories as illustrated in cut. One pair of patients conduone foot plate.

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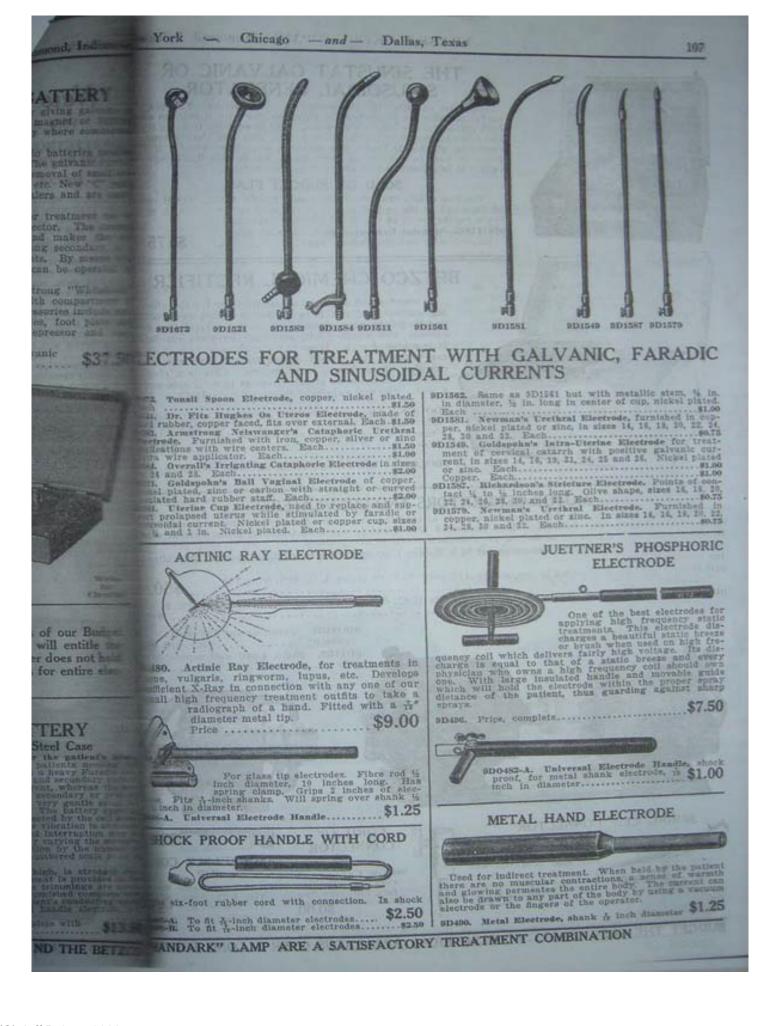
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Universal 1

ICK PROOF



THE BETZCO "HELIOTONE" HEAT-LAMP AND THE BE



THE SINUSTAT GALVANIC OR SINUSOIDAL GENERATOR

Operates on either the alternating or direct current. This is a useful portable apparatus for the physician, for with it you can obboth sinusoidal and galvanic currents. And in addition to using it those modalities for treatment, you may also use the Sinustri operating diagnostic lamps, eye magnets, etc. The Sinustri is portable, easy to handle and carry about, but is also sturdy and built. It is guaranteed to give satisfactory service.

SOLD ON BUDGET PLAN

You can obtain the Sinustat for only \$25.00 down. Try it on 30 days and at the end of that time you may either return it, or begin paying for it in ten small monthly payments. 9DOI166—Sinustat Generator, complete with milli-

amperemeter and electrodes. Each...... \$175.

BETZCO CHEMICAL RECTIFIER

A positive and non-mechanical Rectifier for the alting current. If you have apparatus which require you transform your ordinary alternating current into current, this rectifier will suit your purposes excellent is equipped with a large rheostat by means of which can regulate the current output from it, and avoid charging of machines, batteries, etc. This is a charectifier and needs no attention except to refill once a a year. The new supply of chemicals costs \$1.25.

pDO1338. Chemical Rectifier, complete with conrhoostat and selector switch for A. C. Sold in enameled steel case Tlx11x11 inches in size. \$45

9DO1358A-Extra supply of chemicals for rectifying

MOTOR-GENERATORS AND CONVERTERS

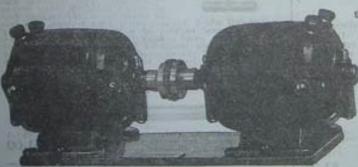
The motor-generator set shown below converts alternating or commercial current into a smooth current, free from outside influence. It is so wound that it can be operated from any street current smoothly and uniformly so as to deliver an unbroken mode to the patient.

To the right of the Motor-Generator set is a Rotary Converter to convert direct current into a

milliamperes, 110 volts D. C...

9DO4151. Rotary Converter to operate on 110 volts D. C., delivering 300 milliamperes at 80 volts, a cycles A. C.

9DO4154. Same, except 200 watt capacity 9D4158. Same, 1,000 watt capacity





SPRING CLIP CONNECTOR



SD1647. Spring Clip Connector, to connect cord tips or conducting cords to tin foil or metal electrods. \$0.25



CORD TIP

Cord Tip Connectors, for connecting cord to electrodes. Each \$0.60



ADJUSTABLE TIP

Tip, with some and taper to electrodes.

BUDGET THE COST OF NEEDED ELECTRICAL APPARATUS OVER A LONG PE

HIGH-FREOUE

CORDS

v York



Proque Cord, Each . . .

Bach ... 10-f

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ei lk cially rum led for use in sinusoidal trea

or, 10 ft. ...

Heavy Com-Tinsel mixe oppor strand o cotton and i ped with adj at both ends a heavy ut resistance.

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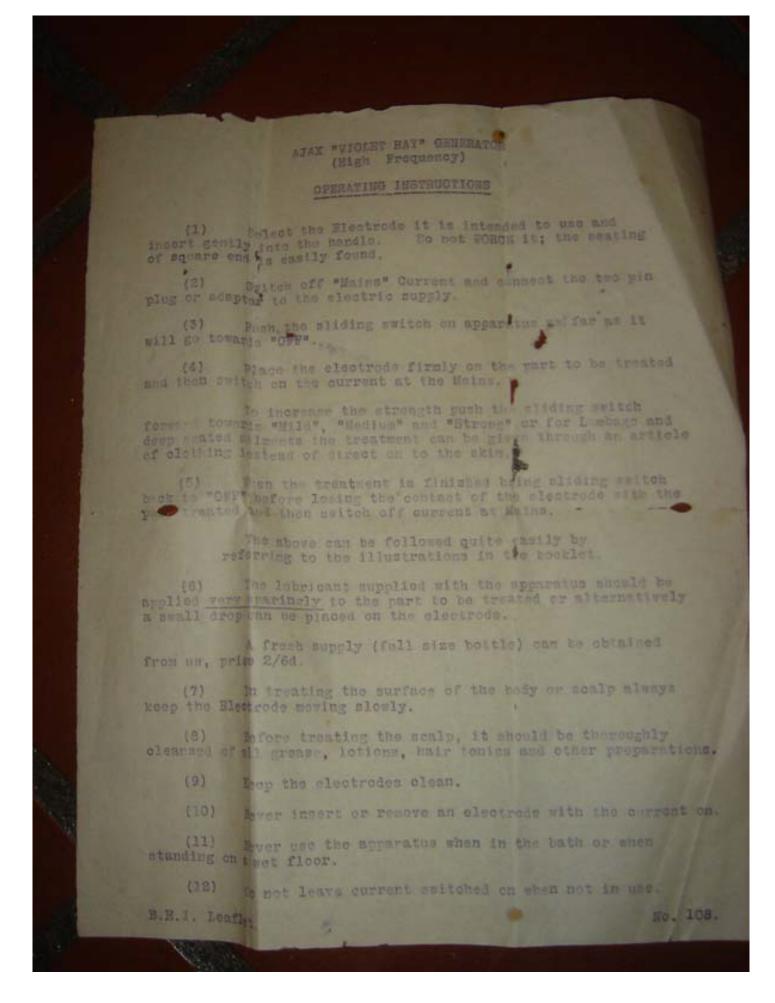
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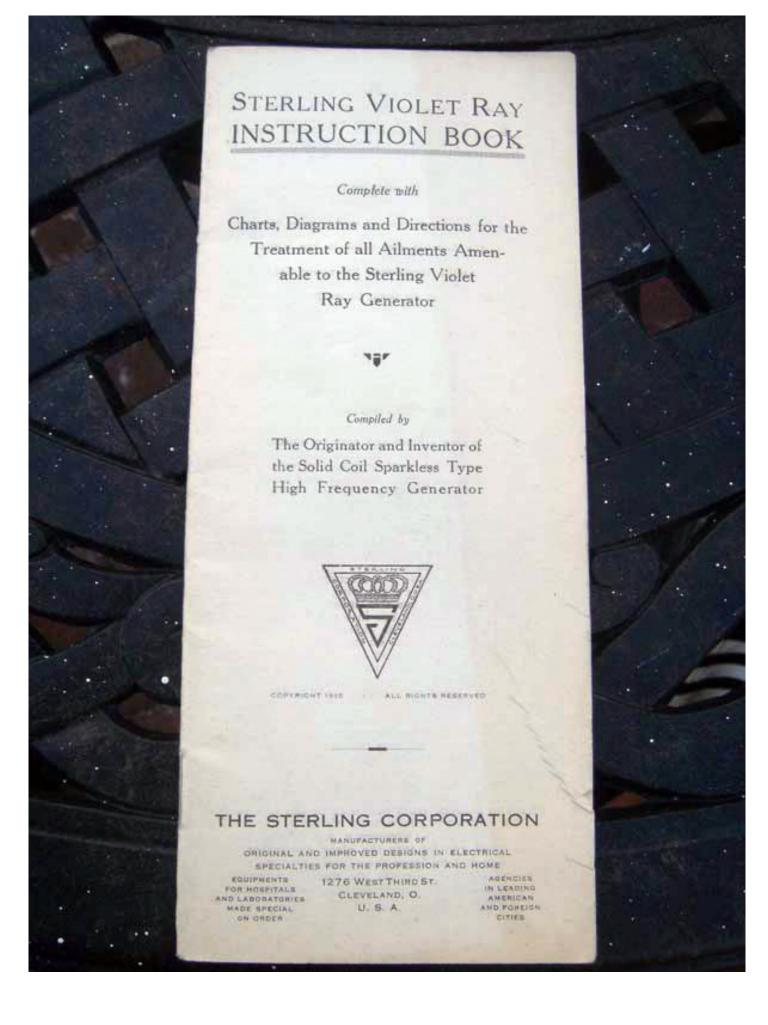


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INTRODUCTION

N offering you the practical benefits of the Violet Ray we would suggest that you do not expect too much. With any form of treatment patience and persistence are necessary from experience you will learn and become more more competent in the application of the and more competent in the application of the

Its efficiency may often be greatly increased by a trained operator or qualified physician.

Sometimes cases are serious enough to warrant consulting a physician and applying the treatment under his directions. Your family doctor should know the benefits and value in the Violet Ray and help you realize them.

The specific treatments for some diseases are not given in this book although favorable reports have been made on them as we prefer to err on the side of conservatism than be carried away by

Persist-study your case. Is your diet and liv-ing proper? Never give up.

In the correct use of the Sterling Violet Ray there is absolutely no danger-no more than from a mild sun bath on a beautiful June day.

OPERATING INSTRUCTIONS

The operation of the Sterling Violet Ray Generator is very simple and easy to understand. So far we feel safe to state that the Sterling

Generator is the most simple, strongest, lightest and best constructed Generator ever made.

The Sterling Generator can be operated by any one and with the assurance that it is absolutely

safe. To use proceed as follows:

First:—Take Generator from the carrying case.
You will find two cords of different lengths attached to it, the shorter one having a screw plug at the extreme end.

Second:-Remove the electric light bulb from its socket and screw the plug in place of bulb. Once you have done this, insert whatever Applicator you intend to use into the handle.

Third:-Turn on the current in just the same way as when you turn on the light.

The Generator should start "buzzing" at once. Should it not do so turn the knurled adjusting knob-upon the front of which appears the words "Patents Pending"-toward "W" (Weaker)three or four turns. If after this the Generator does not start, turn the knurled knob slowly toward "S," until the Generator starts "buzzing."

It sometimes happens that while the current is shut off at your lamp socket, someone turns the adjusting knob towards "S" (Stronger)-never suspecting that by turning the adjusting knob to the right, close to or as far as it will go, the cur-rent is bridged from one wire of the line to the other wire without passing through the handle where the High Frequency and Violet Ray is produced and let into the glass Applicator.

Were you to leave the current bridged in this way for a few minutes the electricity would be changed into heat and ruin the insulation in the

Generator.

When the knob is turned toward "W" (Weaker)—it simply turns off the current, stopping the Generator's "buzzing" but doing no harm.

Fourth:—The adjusting knob should never be turned while the current is off, as you cannot then know when to stop turning. By regulating the strength of the current in the Applicator while the Generator is working or "buzzing" you can easily judge when to stop turning, the more you turn toward "W" the weaker the current, while the more you turn the adjusting knob towhile the more you turn the adjusting knob to-ward "S" the stronger the current.

But as everything has a limit and every part its purpose, here we also have a limit. We could not turn the knob to the right forever and expect to get an ever increasing current. The Generator leaves our laboratories so adjusted that to produce a dangerous current is the nearest thing to impossible.

You may start to use the Generator with the utmost care but as you become more familiar with it you may become reckless-we all do at times, it is human nature-you may turn on and on to see how far you can go, how much more you can stand than Julia or John. But here the Generator by never forgetting to do what is proper and right changes the "buzzing" sound, as a warning, then if you insist that you know you can stand more and you dare to intrude by turning the knob farther, the Generator automaticshuts off the current or rather it bridges it and you cannot get more than you ought to.

The Sterling Violet Ray Generator is adapted for universal use. It works as well with Direct as with Alternating current—and operates at any voltage from 100 to 150 volts. The Generator made to operate at 220 volts can be operated at any voltage from 150 to 250 volts. When Generator was a superior of the control of the con ators to operate at a higher voltage are desired we are prepared to make them on short notice. The same is true if the Generators are desired to operate in voltages anywhere from 30 to 100 volts.

After you become accustomed to the Generator you can quickly tell by the volume of light and the sound just how strong the force is.

CARE OF GENERATOR

Each Sterling Violet Ray and High Frequency Generator leaves our laboratories in perfect condition and properly adjusted and when treated with just ordinary care and operating same as directed on page 2 should last indefinitely. Nevertheless once in a great while it may happen that the Generator works with an irregular and clacking noise-this can happen thru two causes.

One-and most common-is the breaking of cord just as it enters the handle and once in a great while the cord breaks where it enters the generator box. To repair this without returning Generator to us—simply proceed as follows:

While the Generator is running hold handle in one hand with Applicator inserted and with other hand move cord, a few inches from handle, side-ways-up and down and twist. While so doing if cord is broken near handle, the broken part will momentarily and irregularly come in contact and light the Applicator while Generator will work normally. Once this is done one knows at which end the cord is broken. If it happens to be at disconnecting cord from the coil inside of tubber landle—taking care and observing how this is coil the two wires as you had previously found pens to be broken as it enters Generator box, then proceed as follows:

Turn adjusting knob towards "W" until the ad-

Turn adjusting knob towards "W" until the adjusting knob becomes detached from the wire spiral or spring. Once this is done, with a narrow screw driver unscrew and take out the five little ator box. After these five screws are removed after the front cover is easily removed alto and the two are plainly seen. With same small narrow screws driver do not remove but loosen these two screws or unscrewing it from hole at side of Generator box where it enters. Then cut off two or three inches of cord as directed above, and connect same as you found cord connected. To mark wires is unnecessary as the Sterling Generator is so constructed that as long as the two wires—one in each post—are connected, it is immaterial which wire goes to either post—simply connect one wire to each post and tighten screws as found. After this is done replace front cover and screws and screw adjusting knob in place—never forgetting to insert brass part of knob into spiral wire spring is very important and should never be omitted. Now the Generator is ready to be attached to lamp socket again and current turned on—turn adjusting knob toward "S" until Generator starts "buzzing."

Should it happen while using Generator only a very weak and faint glow of current is obtained at Applicator even while using the Intensifier—or surface Applicator—it may be caused thru a damage or puncture to the High Tension Coil which is found inside the rubber handle. This seldom or never happens and is only mentioned as a precaution so that the owner of a Sterling Generator will not ship the entire Generator to us for repairs. In this case all that is required is to send us the High Tension Coil alone. Remove this from handle as above directed, mail same to us and we will replace it without delay.

CARE OF GLASS APPLICATORS

The Sterling Applicators are made from the best grade of glass obtainable for the intended purpose. Some are plain vacuum and others are insulated, which prevents the rays emerging except near the end. Each glass Applicator is hand made one at a time and before leaving our glass department each one is tested. If found defective they are immediately rejected. While the glass used is of the highest quality this does not infer that Applicators are unbreakable. They will never break under ordinary care but every Applinever break under ordinary care but every Appline

cator, particularly the Intensifier and the surface White Ray and Violet Ray Applicators, will sometimes give out and not light. This is caused by the current punching thru the glass invisible tiny holes by which the surrounding air enters the Applicator, thus rendering them useless. While this seldom occurs we cannot guarantee any glass Applicator—some will last months and years, others become defective thru punctures within a few days or weeks of use.

Never place a glass Applicator while warm or immediately after removing it from the Generator handle upon glass topped or marble tables nor wooden stands as the rapid variation of temperature is liable to crack or injure Applicator.

When removing Applicator from handle of Generator immediately after use it is better to place the glass Applicator upon towel or cotton cloth or anything that is not of a contrasting degree lower than temperature of Applicator, or place it back in carrying case.

Always wash Applicators in hot water before and after use, especially in infectious cases.

The current itself is a strong antiseptic and germicidal and will destroy any microbe that comes in contact with it, but the Applicators should be washed for the sake of cleanliness.

HOW TO USE APPLICATORS Nos. 0 - 00 - 2

Whenever a strong current is used through these Applicators a sparking sensation is felt while bringing it in contact with the skin. By carrying out the following instructions you will avoid all the unpleasantness of the sparking.

After the generator is attached to the circuit and in working order, and the Applicator is inserted in the handle, then apply the thumb and forefinger about the Applicator nearest to the handle and apply to the skin quickly. After the skin comes in contact with the Applicator, remove the thumb and forefinger. Whenever the Applicator is to be removed from contact with the skin, repeat the operation, that is, place the fingers as formerly.

When extremely strong current is used, as recommended for certain ailments, the patient is to place his or her hand about the built of the Applicator while holding the rubber handle with the other and then apply Applicator to the skin where desired, keeping the hand on constantly, or removing if the current is tolerable. In this case, part of the current goes through the arm and part through the place where the Applicator comes in contact with the skin, thus relieving the high pressure concentrated in a small area. Nevertheless, the body receives all the current.

For certain ailments, as will be found under the different headings in this book, it will be better to stand the current as per directions given.

HOW TO USE METAL SATURATOR No. 13 GENERAL TONIC TREATMENT GENERAL ELECTRIFICATION

First turn on the current, then hold the metal Saturator by the thickest part in one hand and the

rubber handle in the other. Insert the thinness end of the Saturator into the handle while the generator is working, keep on holding the Saturator until treatment is over then pull the Saturator from the handle, this being done, turn off the current at the socket. Never remove the hand the current at the socket. Never remove the hand from the Saturator while the current is on unless it is done very quickly, otherwise an unpleasant sparking is caused, although not injurious.

Don't oil the Generator nor any of its parts. Don't fail to read our guarantee, front and back.

Don't turn the adjusting knob towarda "S" until the Generator stops "buzzing" and leave it there. If you do, turn it back again at once be-fore any damage is done.

Don't permit the Generator to run when not in actual use and when no Applicator is in the in actual use and when no Applicator is in the handle, as the High Frequency current, if generated and not taken away from the coil inside of the rubber handle, produces heat and, while great harm is not done, it never does any good.

Don't turn the adjusting knob when the Generator is not actually working because if turned the country to the former of the former

too much towards left or right the Generator may not start at once when next attached to the lamp socket and the current is turned on

Don't forget that the Sterling High Frequency and Violet Ray Generator in some respects, re-sembles an expensive well made watch, it will last a life time and keep in good working order when properly treated,

Never come in contact with any metal or with cord of Generator when taking treatment. The body is then saturated with electricity and if in close proximity of any conductor-the current will jump from the body to the conductor and while no danger can come from this it is unpleasant. Remember that the cord of the Sterling Generator never leaks. If while using the Inten-sifier or the metal Saturator, or the Violet or White Ray surface Applicators, you come in contact with the cord a spark with slight shock may be felt. It is because the body is so charged that the current is endeavoring to leak from body and escape, whereupon the current passes from body to cord but never from cord to body.

TREATING INSTRUCTIONS

AS A BEAUTIFIER FACE MASSAGE

Use either Applicator No. 00 or 0 from 5 to 8 minutes, passing Applicator all over face and neck, rubbing from under chin upwards and towards back of head, and from under chin downwards, always keeping Applicator firmly against the skin. Treat once daily or every other day.

UNDERDEVELOPMENT

Treat all over breast with Applicator No. 00, using a mild current, from 5 to 6 minutes to each breast once daily.

While treating, press gently, always keeping good contact between the skin and Applicator, also pass Applicator in a circular motion and not up and down, or sidewise.

FLABBY BREAST

Treat the breast, particularly about the nipple, with Applicator No. 00 from 10 to 12 minutes each breast, using a fairly strong current and always making good contact with Applicator.

Treat once daily.

HAIR AND SCALP

For diseases of the scalp either the rake or straight Comb Applicators No. 4 or 5 are ex-tremely useful and if the Violet Ray thru one of these Applicators is used at least once every other day from 5 to 10 minutes, the user will perhaps never again complain of falling or brittle hair nor of Dandruff.

The benefit of massaging the scalp is very marked. It strengthens the scalp tissues, thereby preventing falling of the hair. A good way of preventing falling of the hair. A good way of strengthening the scalp and giving healthy hair growth is by holding the Saturator Applicator No. 13, with one or both hands and using mild current while a second person massages the scalp, vigorously rubbing the scalp with a semi-circular motion, using the tips of the fingers. If the person has never been treated this way or a long time has elapsed since the last treatment the scalp may pain somewhat or a form of headache may be felt for the first few treatments, but this will gradually disappear as the scalp becomes accustomed to it, which is generally within eight or ten treatments. This little discomfort will be found well worth while as once the scalp becomes strengthened one can easily stand a strong pull on the hair without the least pain.

People with blonde and brunette hair require different treatment. Those who are blonde or light complexioned require shorter applications to obtain equal results.

DANDRUFF

The High Frequency and Violet Ray will not take Dandruff away from the hair unless the hair is very short. It simply removes the Dandruff from the skin or scalp, leaving it mingled loosely with the hair.

Experience has taught us the following: Certain people, especially women, after using the Violet Ray for a number of times have found that they had more Dandruff than when they began the treatment. Of course this was a mistake on their part and they were convinced after they had followed the suggestion here offered, which we hope will also convince the reader of this booklet, what the Violet Ray did was to remove all Dandruff from the scalp and clean the skin from any foreign matter, leaving Dandruff loose on the head and free in the hair.

The Dandruff should be removed from the hair with a fine comb or by brushing after each treatment.

Use Comb Applicator No. 4 or 5 with a medium current strength from 6 to 8 minutes daily.

FALLING HAIR

For falling hair there are few things, if any, as beneficial as the High Frequency, either the White or Violet Ray.

For some people the White Ray is better than the Violet, for others the contrary is the case.

High Frequency will not stop failing hair with one treatment, but when faithfully used for a length of time, the results will many times repay the trouble. Comb the hair with either Comb Applicator No. 4 or 5, from 5 to 10 minutes every day, and after a month the results will speak for what the High Frequency can accomplish. BARBER'S ITCH Treat with Applicator No. 00, using a rather strong current, keeping Applicator about 1/2" from Treatment should last from 1½ to 2 minutes twice daily for three or four days, after which, if necessary, once daily or every other day. Use either Applicator No. 4 or 5, from 10 to 15 minutes. Treat all over head area, using a medium strong current. BLACKHEADS AND PIMPLES RLACKHEADS AND PIMPLES

First treat with surface Applicator No. 00 over the part where the blackheads or pimples are located for from 3 to 4 minutes, using a fairly strong current. After this use any of the pointed Applicators as for instance the Nanal No. 10 with the same attength of current as before, throw a spark to the blackhead or pimple, keeping the Applicator from one-eighth to a quarter of an inch away from the skin, letting the spark jump across. The treatment for each pimple or blackhead should last from 5 to 10 seconds.

ERUPTIONS ERUPTIONS Eruptions of the skin are common and the majority of cases are due to carelessness and negli-gence of the proper hygienic measures.

Treat from 5 to 8 minutes with Intensifying Applicator No. 2, barely touching the skin, using a fairly strong current. This treatment is also especially adapted for greasy and shiny skin except that the Applicator should in such cases make good contact with the In both cases the Applicator should be slowly and constantly moved across the skin. WARTS AND MOLES

The proper treatment of warts is by using the Fulgeration Electrode No. 9 but they can also be successfully treated with any of the pointed glass Applicators by following same instructions as for blackheads and pimples except that the treatment should be from 35 to 45 seconds.

After each treatment a slight soreness and warmth is felt and in some cases, especially where the individual has red or light hair, a local irritation may set in. This is nothing to be alarmed about but such persons should allow three or four days between treatments.

A large wart usually requires from four to six treatments of 35 to 45 seconds each and will dry up and drop off within ten to twelve days, the remaining mark gradually disappearing within the next thirty or forty days, leaving no scar as a memory at the end of that time.

BOILS OR FURUNCLE Treat with Applicator No. 0 which gives White Rays, use a strong current, and while keeping Ap-plicator, not less than 1/8" from the Boil or Furnucle, treat the entire affected area from 7 to 9 minutes, twice daily, letting the current spark from the glass Applicator to the Boil. Should the treatment be too severe for certain places of the body use less strength of current and cut down the time accordingly.

WRINKLES-SKIN REJUVENATION

WRINKLES—SKIN REJUVENATION

Use the Violet Ray Applicator No. 00 over the chin and cheeks, making a good contact with the skin but not pressing and rubbing always upwards from the chin and from the front of neck around to the back and then down to the shoulder.

In most cases a layer of foreign matter will be found adhering to the Applicator and it will surprise the operator to know that the supposedly clean skin really held all of this dirt and grime.

We know of nothing better to clean the poren of the skin, stimulate the surface capillaries and restore normal healthy circulation to dull, pallst, flabby skin than the High Frequency and Violet Ray either used thru the Applicator No. 00 or the Intensifier No. 2. Treatment from 5 to 7 minutes daily or every other day.

AFTER SHAVING

AFTER SHAVING

Practically all men suffer more or less discom-fort after shaving, either from irritation of the skin or from small cuts, bruises, abrasion or pim-

Any man will be convinced after using the Violet Ray thru Applicator No. 00 three or four times after shaving of the superiority of the Violet Ray over any cream or lotion. As a germicidal it has no equal, it seems safe to say.

The bleeding of any small cut or bruise may be

stopped in ten seconds by using the Violet Ray Applicator No. 60, scarcely touching the cut but by permitting a liberal spray of current to be cre-ated between the Applicator and the skin. In other words to properly treat and stop the cut from bleeding throw the current from the Applicator directly to the cut by keeping the Applicator within a sixteenth or one-eighth of an inch from the skin. The bleeding usually stops within five or ten seconds but should the cut be of such size that the blood bursts forth again after the removal of the Applicator simply repeat the treat-ment for from 15 to 25 seconds, which, however, is seldom required.

Cases of sore skin caused by the razor or close shaving will be found to disappear almost imme-diately after a short treatment. The treatment should always be given after one has finished shaving and the skin is washed free of soap and thoroughly dried.

CARE OF THE FEET

In most cases callous growths can be banished

by the steady use of the Applicator No. 00.

For blistered feet use the White Ray Applicator No. 0 every morning and evening before retiring. To apply the White Ray to its best advantage it should be used after soaking and washing the feet in hot salt water. After properly drying the feet treat while the pores of the skin are open and the skin soft. This treatment will be found most val-uable and pleasing and the little trouble will be amply repaid.

GENERAL AFFLICTIONS EAR AILMENTS

Treat with Applicator No. 11 from 10 to 12 minutes, using a mild current. Use as often as

When inflammation exists, treat about the ear with Applicator No. 00 from 5 to 8 minutes with

DEAFNESS

Apply a mild current thru Ear Applicator No. 11 from 5 to 6 minutes. Whenever the heat is too great remove Applicator for a few moments, then repeat. Treat morning and evenings.

EYE AILMENTS

Apply a mild current thru Eye Applicator No. 7 from 5 to 6 minutes once daily. If both eyes are affected use the Double Eye Applicator No. 8.

When inflamed use also White Ray Applicator No. 0 over the part swollen from 3 to 5 minutes

ALCOHOLISM

As a stimulant apply with Surface Applicator 00 As a stimulant apply with Surface Applicator 00 through 6 or 7 thicknesses of dry white cloth to the muscle masses, also up and down through center of abdomen for intervals of 3 to 4 minutes, keeping it constantly moving.

This condition is worthy of serious attention and the treatment is much more efficient when auto-condensation is an auxiliary. Therefore, we advise your consulting one capable of administer.

advise your consulting one capable of administering it complete.

ABSCESSES

The name abscess is given to certain circum-

The name abscess is given to certain circumscribed cavities containing pus.

There are many parts in our body where an abscess may manifest itself and to be frank, certain form of abscesses ought to be treated by the Dentist or Physician as the case may be. For the property of the bandled o example: An Alveolar Abscess should be handled by the Dentist, while a Fecal or Lacunar Abscess should be treated by the physician,

By using the Violet Ray, as soon as the ab-scess starts, its action may be stopped by applying fairly strong current through the Violet Ray Applicator, making good contact with the affected area.

Treatment:-If the Abscess is just starting to grow or manifest itself in any way use surface Applicator No. 00 which produces the Violet Ray. If the Abscess is already in existence it is bet-

ter then to treat it with the White Ray surface glass Applicator 0.

Apply the current in either case right to the part affected, making good contact. Use fairly strong current—about half the Generator's output is proper-and apply from 4 to 10 minutes daily. stopping treatment for two or three days should the affected part become too irritated.

COLD IN HEAD

Apply Violet Ray thru nose with Applicator No. 10, from 4 to 5 minutes. Also apply current about face, forehead, back of head and neck from 15 to 20 minutes morning and evening, using Applicator No. 00. The use of Ozone Inhaler described on page 25 is even more efficient.

CARBUNCLES

For the treatment of Carbuncles the Intensify-ing Applicator No. 2 is to be preferred, although the plain Surface Applicator No. 00 may be used

the plain Surface Applicator No. 00 may be used to advantage.

With either Applicator strong current should be used. When Carbuncles are just starting, use the Applicator giving Violet Ray. Where Carbuncle is developed, the Applicator giving White Ray is to be preferred. The treatment should last from 10 to 12 minutes daily.

The Applicator is to be passed over the entire area affected by the Carbuncle but do not presa the Applicator, merely pass over with the slightest pressure.

est pressure.

Never keep the Applicator motionless, move it back and forth constantly during the entire treatment.

In practice it is found that while High Frequency Violet Ray or High Frequency White Ray has proved effective in a surprisingly large number of cases, there are also some cases where the X-Ray used in conjunction with the Violet or White Ray-whichever the case may be-obtains better success.

While we also supply either X-Ray tubes of low and high vacuum or X-Ray Applicators, we feel that these tubes or Applicators are best handled only by an expert physician, or Electrotherapeutist, therefore we do not sell them to the general public.

SUN-STROKE

Use a very weak mild current applied thru Vio-let Ray Applicator No. 00 and apply to place affected.

Treatment to last from 8 to 10 minutes once a

DRUG HABITS

The treatment of Drug Habits with the High Frequency and Violet Ray is much better handled by the expert physician or Electrotherapeu-

When the patient is suffering from morphinism or the opium habit give the following treatment:

Apply strong sparks with Intensifying Appli-cator No. 2 over liver and central part of the ab-domen from 2 to 3 minutes at a time. Also give general electrification with Saturator No. 13 for 15 minutes. The treatment for cocaine habit is quite different. Cocaine habit may be treated by most

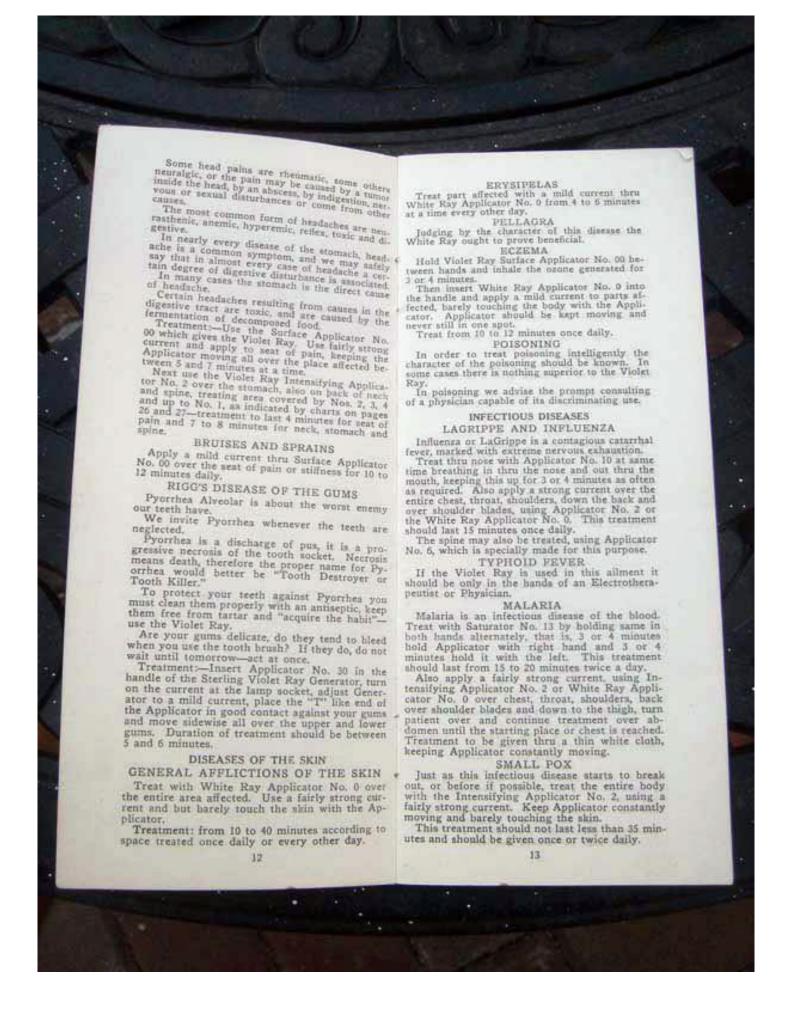
anyone who knows how to operate the Sterling Violet Ray High Frequency Generator. Treat with Applicator No. 00, using fairly strong current and Violet Ray. Apply current to sole of feet and all over arms and legs until red-dening of the skin starts to appear. Keep Applicator constantly moving.

NOSE BLEED

Reports on this condition indicate that treatment with the Violet Ray Surface Applicator No. 00 on the back of the neck and shoulders is beneficial. Treat from 6 to 8 minutes.

HEADACHES

No other form of ache is so common and universal



ASTHMA The inhalation of orone has proven beneficial. Hold Intensifying Applicator No. 2-using a fair-ly strong current—in the paim of the hand and inhale the ozone so produced from 10 to 20 minutes. Better still use Ozone Inhaler (see page 25). Also use External Throat Applicator No. 3 out throat from 5 to 7 minutes. When first an attack of Anthina appears it is well to use Applicator No. 0 about hips, chest and under arms; also apply about nose. Use a fairly strong current for 10 to 15 minutes. HAY FEVER Follow same treatment as for Aathma. CATARRH (NASAL) Use Nasal Applicator No. 10 within the nose, using a very mild current. Treat both sides from 2 to 3 minutes each. Then treat outside with Applicator No. 00 or No. 2 from 5 to 7 minutes, using a rather strong current and making good skin contact. Also inhale the orone generated while holding bulb of Applicator in closed hand for 5 or 6 minutes. (See page 25—Ozone Inhaler.) BRONCHITIS Use Intensifying Applicator No. 2 sending thru it a fairly strong current. Cover the chest and back with three or four layers of white clean cloth and treat thru the cloth from 5 to 6 minutes, keeping Applicator constantly moving. After that hold Applicator between closed hands and inhale the orone generated from 10 to 12 min-ures. Repeat this three times daily while chest applications once daily is sufficient. (See page Ozone Inhaler.) PLEURISY Treat same as Bronchitis

PNEUMONIA Treat same as Bronchitis TONSILITIS

High Frequency is not very dependable in Tonsilitis but in some cases has been very beneficial

especially when used in time.

Treat with External Throat Applicator No. 3 about throat from 7 to 10 minutes, using a fairly strong current. Also treat internally thru mouth with Insulated Throat Applicator No. 12 from 4 to 6 minutes, using a fairly strong current.

SORE THROAT Treat inside, thru mouth, with Applicator No. 12 from 1 to 4 minutes according to affection. Also use External Throat Applicator No. 3 from 8 to 12 minutes twice daily with a medium current.

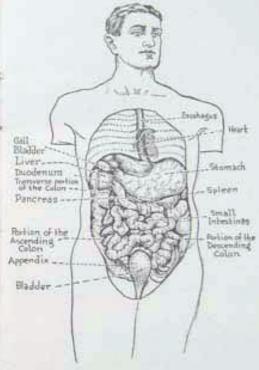
TUBERCULOSIS If used in time the High Frequency thru In-tensifier Applicator No. 2 is beneficial. Treat the entire body using a fairly strong current.

Also hold Applicator between closed hands and inhale the ozone generated. While treating body, pay most attention to the chest, back, throat and about nose.

See that Applicator has at all times good contact with the skin and move it constantly.

Treatment should last from 20 to 30 minutes

daily. (See page 25-Ozone Inhaler.)



Principal Abdominal Organs

DISEASES OF THE STOMACH AND INTESTINES

DYSPEPSIA

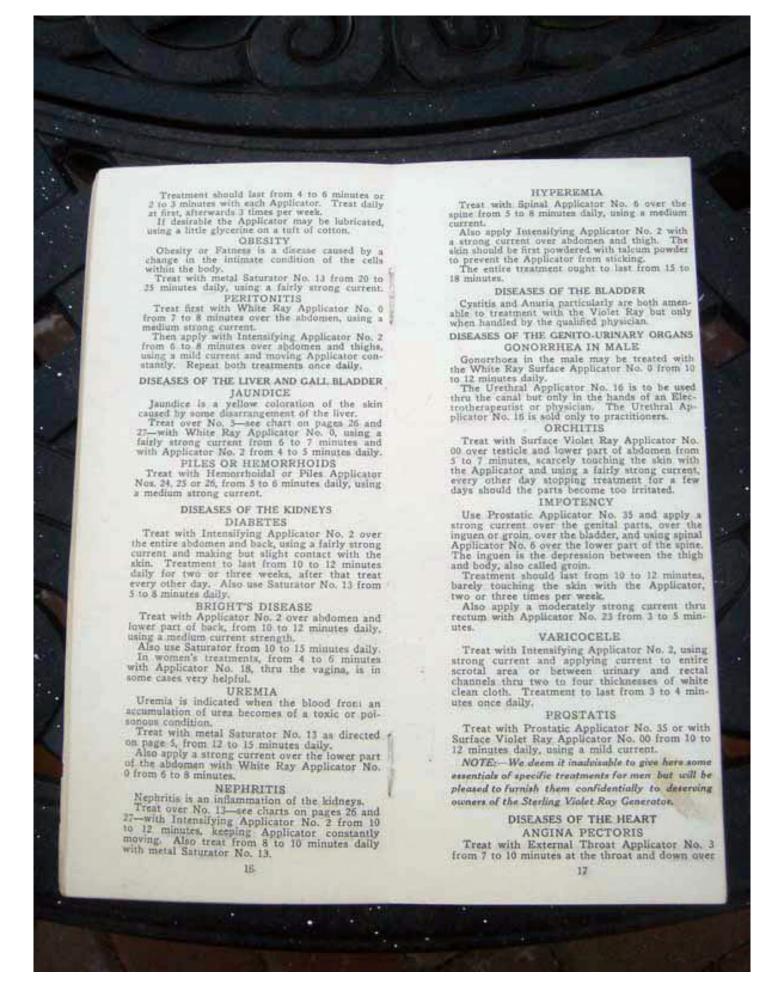
Use Surface Applicator No. 00 over entire stomach and abdomen, from 10 to 12 minutes with strong current, also hold in hands near nose and inhale the ozone produced by this same Appli-cator when grasping same with both hands. Treatment from 3 to 4 times per week.

GASTRITIS

Treat over stomach, abdomen and chest with Intensifying Applicator No. 2 from 12 to 15 minutes, making good contact and using a strong current. If Applicator has a tendency to stick to the skin dust a little talcum powder on it which will prevent this. Treatment mornings or evenings.

CONSTIPATION

Treat with Intensifying Applicator No. 2 over abdomen, using strong current-about three-fourths full strength-from 10 to 12 minutes. Also treat thru rectum with Insulated Applicator No. 23 first, then with one of the Dilatators Nos. 37, 38 or 39, according to required size.



shoulders. Also the Intensifying Applicator No. 2 with a mild current from 4 to 6 minutes. Over Nos. 9 and 3, see charts on pages 26 and 27. Treatment should be entrusted to the physician.

ARTERIOSCLEROSIS Should be treated with metal Saturator No. 13 by holding it in the hand, using fairly strong

Treat from 12 to 15 minutes daily.

DISEASES OF THE BLOOD CYANOSIS

Treat with metal Saturator No. 13 from 10 to 12 minutes daily. Also with Surface Violet Ray Applicator No. 00 over entire body, using a fairly strong current, and barely touching the skin with Applicator.

ANEMIA

Treat with Surface Violet Ray Applicator No.

00 over lips, chin and nose.

Hold Applicator with one hand and inhale ozone generated for 5 minutes. (See page 25 about Ozone Inhaler.)

Also apply a medium strong current with spinal Applicator No. 6 over the whole spine, keeping Applicator moving slowly.

MILK-LEG Apply strong current with Intensifying Appli-cator No. 2 to part affected for 6 minutes daily. Also general electrification with metal Satura-tor 13 is recommended of from 10 to 12 minutes

duration.

DROPSY

Before Dropsy can be intelligently treated the exact nature of the case must be known.

DISEASES OF THE MUSCLES AND JOINTS ARTICULAR RHEUMATISM

Treat with Intensifying Applicator No. 2 over the seat of pain, using a strong current. The pa-tient should sit, bend or stand so as to bring pain while the treatment goes on.
Make very slight contact with Applicator to

skin and keep Applicator constantly moving but

Treatment should last from 25 to 30 minutes daily. Should skin become sore postpone treatment two or three days.

RHEUMATIC ARTHRITIS

Same treatment as for Articular Rheumatism. COUT

On account of the peculiar nature of this ail-ment it is better left for the physician.

LUMBAGO

The patient should ait or bend the body or make whatever movement that brings pain. Use the Intensifying Applicator No. 2 over the part indicated by the pain as being most affected. Use a fairly strong current and just barely touch the skin with Applicator. Make the patient bend or rise and apply the High Frequency thru Applica-tor No. 2 while rising or bending. This is rather painful but pain will disappear within 10 minutes in most cases.

Repeat treatment once a day until pain ceases to return.

WRITERS' CRAMP

Treat with Intensifier Applicator No. 2, using a fairly strong current. Treat from finger tips, all over hand, wrist, forearm, arm and aboulder, making but slight contact with Applicator and skin.

Also apply current over neck and between the

shoulder blades.

Treatment should last from 15 to 20 minutes every other day, or daily if skin stands without

Some persons can endure more current than others without discomfort, but in any case, if irritation sets in suspend treatment for a few days.

RHEUMATISM

Apply current to seat of pain with Applicator No. 2, using a fairly strong current and making but alight contact or barely touching the skin. Treat from 10 to 12 minutes at a time.

MUSCULAR SORENESS

Cause ought to be found first-then treat ac-

cordingly.

Treat from 15 to 20 minutes with Applicator No. 13 and from 5 to 8 minutes with Applicator No. 00, using a medium current.

CRAMPS

Apply a medium current to area affected thru Applicator No. 2 from 8 to 10 minutes

CONTRACTION OF MUSCLES

Use metal Saturator from 25 to 30 minutes daily.

HIP JOINT DISEASE

For treatment see Articular Rheumatism.

Treat with Violet Ray Applicator No. 00 from 10 to 12 minutes, using a medium strength current and barely touching the skin with the Applicator, that is, touch the skin but without pres-

In chronic cases the White Ray Applicator No. 0 is better. Give a strong current from 10 to 15 minutes thru 2 or 3 folds or layers of white clean cloth, placing the cloth between Applicator and the skin.

DISEASES OF THE BRAIN AND NERVES ST. VITUS DANCE

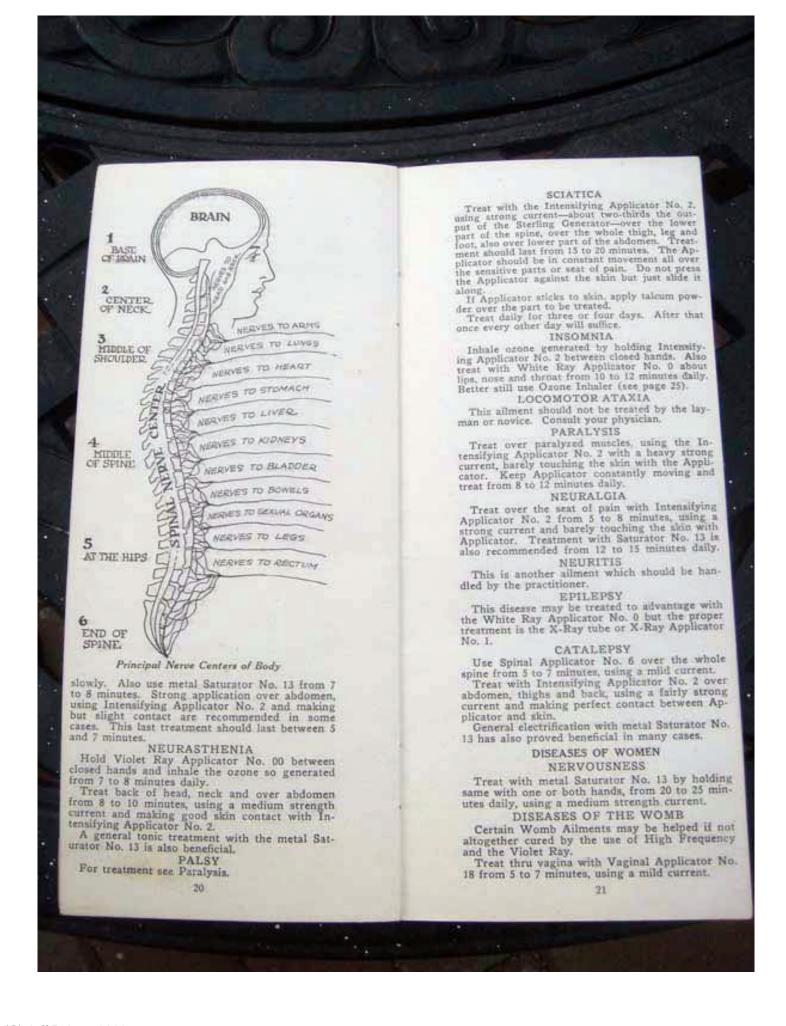
Treat with metal Saturator No. 13 from 20 to 25 minutes daily. Also treat the entire body with Intensifying Applicator No. 2, using a strong current and moving Applicator slowly but with firm contact. Treat two times per week from 20 to 25 minutes each treatment.

GOITRE

Treat over goitre and neck with Intensifying Applicator No. 2, using a very strong current, barely touching the skin with the Applicator. Treatment to last from 6 to 8 minutes every other day. Should skin become sore after 4 or 5 treatments discontinue for one week, after which treatment may be continued again.

Treat with Spinal Applicator No. 6 over the spine from 7 to 9 minutes, using a mild current and moving Applicator up and down the spine

18



Also apply a strong current with Applicator No. 2 ever Nos. 7, 8, 11 and 12—see charts on pages 25 and 27—from 7 to 10 minutes duration, keeping Applicator constantly moving but slowly.

AMENORRHEA

Menatruation in Young Girls When Irregular, Scanty or Delayed

A painful menstruction is needless, do not wait until you pass the nineteenth or twentleth year of your birth, the longer you wait the harder it is to cure. Better stop taking whiskey, gin, coal tar products and see your physician. If he is an upto-date one, he will use the High Frequency Violet Ray. It may be that you do not like the idea of going to anyone and telling them your personal troubles. If your case is not an old one you may treat it yourself right in your home with the Sterling Violet Ray Generator.

Treatment:—Regulate the Generator. A painful menstruction is needless, do not wait

Treatment:-Regulate the Generator to give a Treatment:—Regulate the Generator to give a fairly strong current—about three-quarters the output—sit in a wooden or springless chair, or lay in a bed with a rather thick mattress. Then take hold of the Generator's handle with your left hand and with your right hand take hold of the metal Saturator No. 13 by the hollow, and larger part, insert the opposite or thinner end into the handle as far as it will go. Now the High Frequency current is all thru your body acting as a tonic and as a blood purifier.

Never take your hands off the most of Saturator.

Never take your hands off the metal Saturator, or turn on or off the current while holding same.

After the treatment is over or the current is to be turned off for some reason or other, remove the Applicator from the handle first, then set handle aside and turn off the current at the

This treatment should last between 15 and 20

Directly following this, use the Violet Ray Applicator No. 00 for 8 or 10 minutes over the area covered by No. 6—(see chart on page 25)—once daily or every other day. In certain cases where greater penetration and heat are desired use Applicator No. 2 which gives a stronger and more penetrating current than Applicator No. 00, producing greater heat. Treatments of from 10 to 12 minutes are usually sufficient.

Do not expose yourself to draughts or bad weather within an hour and better not at all.

AMENORRHEA IN WOMEN

Irregularity or Suppression of the Menstruation Use Insulated Applicator No. 18 thru the Vagina, treatment to last from 5 to 6 minutes by the clock and not guessed at. Take treatment every other day, or a daily treatment of 3 to 4 minutes each. Then apply with Applicator No. 00 over the lower part of the spine, using a fairly strong current. Between the spine and Applicator place

from 2 to 3 folds of some clean thin cloth.

Treatment should last 4 minutes, keeping the Applicator moving constantly. The treatment just described is rather unpleasant as the task given to the High Frequency current is to attract certain amount of blood to the area treated.

The area treated will become of a pigmented color—pinkish or reddish color—and will feel rather warm for an hour or so afterwards.

DYSMEMORRHEA

Same treatment as Amenorrhea in Women. LEUCORRHEA

Use Insulated Glass Applicator No. 18 and proceed as follows:

The patient should lay on her back over a thick mattress or wooden table and insert the Vaginal Applicator as directed for Menstruation—see Amenorrhea in Women.

Then apply with the Spinal Applicator No. 6 a atrong current over the spinal region from lower part of neck down to end of spine, keeping Applicator moving constantly up and down the

Treatment to last from 5 to 6 minutes daily from 5 to 8 days afterwards every other day.

MENAPAUSE-(CHANGE IN LIFE) Treat with White Ray Applicator No. 0 over

spine, back of head and neck. Also over abdomen. Place three folds or layers of white clean cloth between Applicator and skin, using a medium strong current, applying current thru cloth. Treat from 20 to 25 minutes every other day.

OVARITIS

For treating certain ovary affections such as neuralgic pains, irritation, tenderness, and the like, the High Frequency and Violet Ray has been very successful from the start and is gaining ground daily. Treatment causes no discomfort or pain whatever and is not the least complex.

The patient should lay on her back, with knees

bent, and body relaxed.

Then apply a strong current over Nos. 8 and 12—see chart on pages 26 and 27—using Surface Applicator No. 00 and pressing firmly but not so hard as to break glass Applicator. The Applicator should be moved slowly and treatment to last 5 to 6 minutes each side, daily or every other day.

GONORRHEA IN WOMEN

Treat with plain Vaginal Applicator No. 17 thru the Vagina from 5 to 7 minutes every morning and with Insulated Vaginal Applicator No. 18 from 4 to 5 minutes by the clock every evening before retiring.

For chronic cases the White Ray Vaginal Ap-plicator No. 18-W is recommended.

NOTE: We deem it inadvisable to give here some essentials of specific treatments for women but will be pleased to furnish them confidentially to deserv-ing owners of the Sterling Violet Ray Generator.

DISEASES OF CHILDREN DIPHTHERIA

Treat inside of throat with Insulated Applicator No. 12, using weak current from 2 to 3 minutes and outside of throat, using Applicator No. 3 for about 6 minutes morning and evening.

MEASLES

This is a contagious disease of children known to science as Rubeola.

The best marked characteristics of its effects

are the eruption of the child's skin. A physician should be consulted at once, but to prevent the disease from gaining rapidly treat the child with a mild current, using White Ray Surface Applicator No. 0 all over the entire body.

Treatment should last from 15 to 20 minutes, never keeping Applicator stationary but move slowly and constantly. Repeat twice dally.

GERMAN MEASLES

Treat same as Rubcola or Measles.

MUMPS Apply White Ray with Applicator No. 0 to swollen part and surroundings. Treat once daily from 10 to 12 minutes. Use a mild current and make good contact between the part affected and Applicator. WHOOPING COUGH

Known also as Pertusis and it is a contagious

disease.

Treat patient with the Intensifying Applicator No. 2 over the shoulders, across from shoulder to shoulder back and front, using a fairly strong current for about 10 minutes, then with External Throat Applicator No. 3 treat all around the throat from 5 to 8 minutes, using the same intensity of current as before. About 30 or 35 minutes afterwards hold Applicator No. 00 in the palm of the hand with hand clasping Applicator and inhale the ozone then generated for 20 minutes. The Ozone Inhaler is very valuable in this allmost. disease. Ozone Inhaler is very valuable in this allment. (See page 25.)

CROUP

Use Tongue Applicator No. 14 to give a mild

flow. Place Applicator flat on top of tongue and close the mouth.

Treat from 5 to 6 minutes, taking deep breaths thru the mouth and exhaling by the nose.

Also use Nasal Applicator No. 10 thru the nose and Surface Applicator No. 00 about face, nose and throat externally from 7 to 10 minutes. Immediate resort to the Ozone Inhaler described on the control of the Ozone Inhaler described on the Ozone Inhaler page 25 will save much anxiety.

INFANTILE PARALYSIS— POLIOMYELITIS

In such a serious case as this the treatment should be administered by a physician or Elec-

trotherapeutist and not attempted by the novice. Place five or six layers of thin clean white cloth between the parts to be treated and the Applicator.

Apply strong sparks with Applicator No. 2 to the spine and parts paralyzed for 2 minutes.
As some persons are more sensitive than oth-

ers, the physician or operator should judge how often the treatment should be given. An hour or so before the above treatment begins give, with the metal Saturator No. 13, a general body electrification from 10 to 12 minutes. General electrification should be given twice daily.

CHICKEN POX

This child's disease is also known as Varicella, it is infectious and eruptive.

Treat entire body with Applicator No. 0, making good contact and keeping Applicator moving constantly 20 minutes once daily.

OZONE INHALER

Our new Ozone Inhaler will, we believe, be the first satisfactory article of its kind ever produced for use with a small High Frequency Generator. It is made to readily attach to the Generator handle in the same way that any Applicator is used. When the Generator is operating it gives off a constant volume of ozone which purifies the surrounding atmosphere and is available for the treatment of Coughs, Colds, Catarrh, LaGrippe, Bronchitis, Laryngitis, Pharyngitis, Asthma, Hay Fever, Croup, Anemia and other allments of a like character.

Essential oils may be vaporised in the process.

Essential oils may be vaporised in the process which also have a soothing effect upon the mucous membranes and affected parts.

Many serious ailments often with the most fatal consequences or termination come from a

simple beginning.

The protection afforded by this economical and efficient adjunct to the Sterling Violet Ray Generator is so great that no home should be

Generator is so great that no nome anough be without one.

With the Sterling Ozone Inhaler the most potent, disease-destroying, health-giving, element of nature may be applied locally and directly to the affected area with an assurance of prompt relief.

Only lack of space prevents a further description of this indispensable Applicator, but illustrated literature will gladly be sent to all interested upon request.

ested upon request.

STERILIZATION OF WATER AND MILK WITH HIGH FREQUENCY

Advanced scientists have long realized the importance of pure water and milk as a safeguard to health. The value of the Violet Ray for such a purpose has also long been held as incomparable. It quickly creates a steady volume of ozone directly in the water or milk to be purified.

It is nature's method intensified and concen-trated. The action is similar to that of Sunlight, in which Bacteria cannot live-complete and per-

Until recently no simple, certain, natural and economical means for High Frequency sterilization on a small scale for the home has been

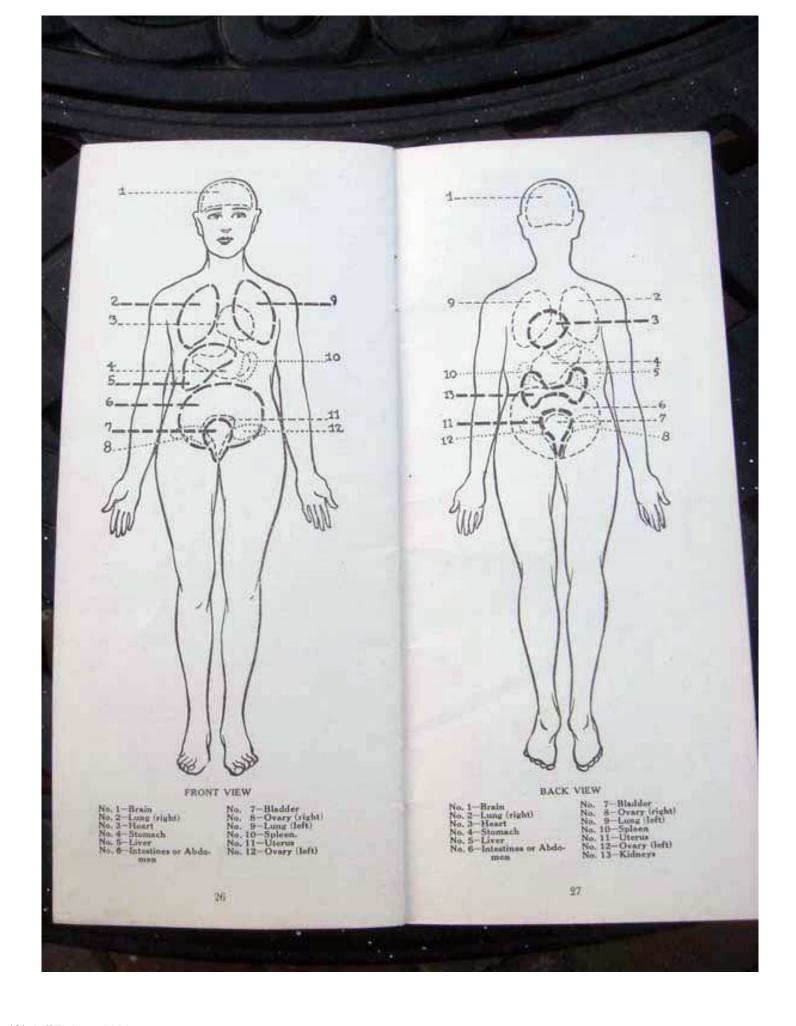
With the advent of the Sterling Violet Ray Generator milk and water may be purified and made perfectly safe, the Bacteria being destroyed. This can be done quickly in your own home, and just previous to use. The cost is insignificant.

This system should save many from Typhoid Fever, Dysentery, Tuberculosis and other danger-ous diseases due to impure water and milk. It is one of the greatest benefits ever conferred upon babies

A special Applicator is now being designed by us for this purpose and will shortly be placed

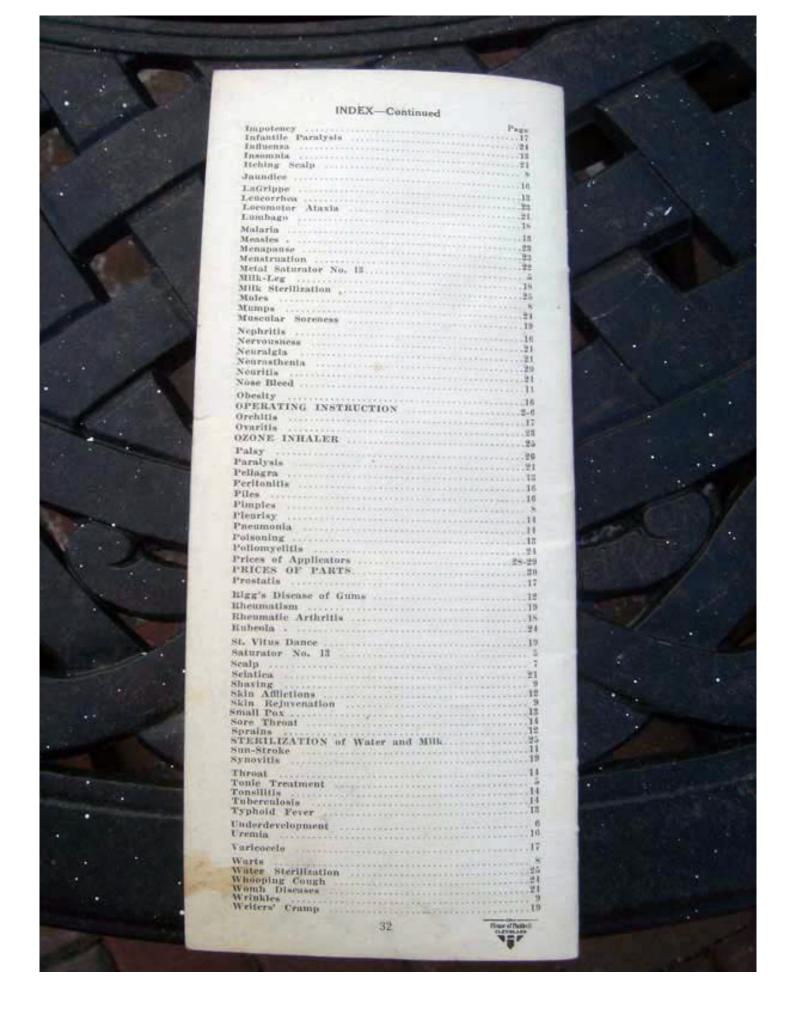
upon the market. Every home should own and use this valuable Attachment constantly and so be free from the fear of contaminated water or milk as well as the expense of the special water and milk this

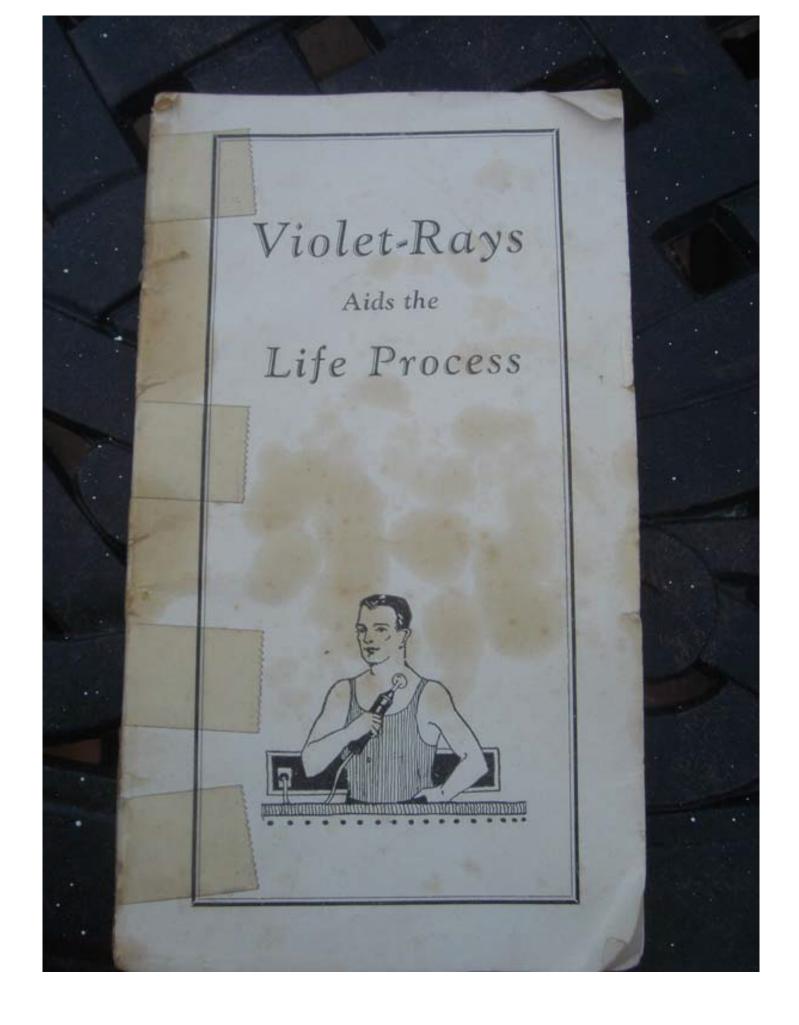
fear often urges you to purchase.



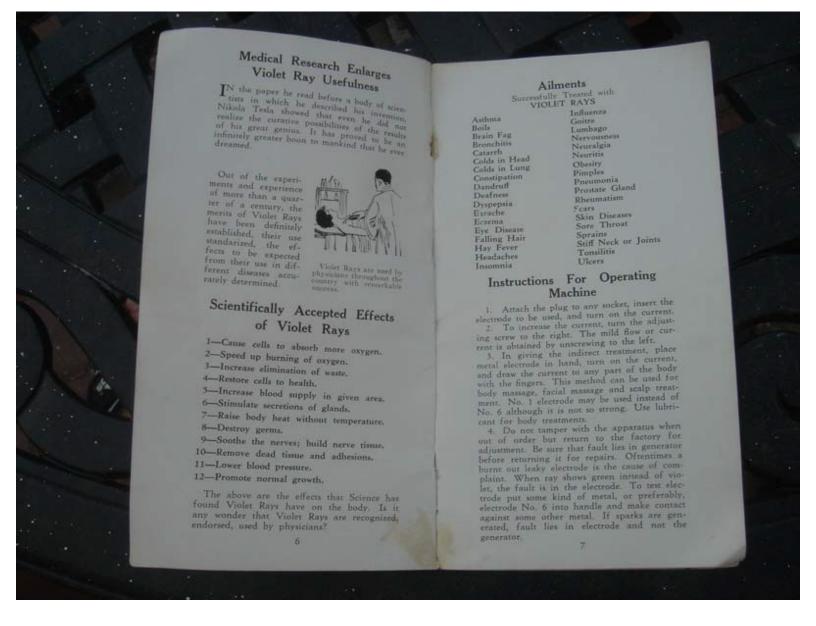
APPLICATORS AND THEIR USE	No. 14 TONGUE APPLICATOR—Insulat-
NOTE: In each case follow the directions for use given under the specific ailment and not here. See plate at end of book.	ed, is used in fever cases No. 15 PLAIN URETHRAL APPLICA-
No. 00 SURFACE APPLICATOR FOR VIOLET RAY is used for most general surface affilictions. \$.75	channel and bladder and is only sold to physiciams
BLUE WHITE DAY FOR	bladder and urinary channel and is
No. 1 SURFACE APPLICATOR WITH	No. 17 PLAIN VAGINAL APPLICATOR is adapted for special diseases of
No. 2 INTENSIFYING APPLICATOR is	No. 18 VAGINAL APPLICATOR - Insulated, is also for special diseases of
are required	No. 18-W PLAIN VAGINAL APPLICA- TOR giving White Ray is rec-
CATOR is for allments of the throat, arms and legs and is designed to fit such parts of the body 1.00	No. 19 PERFORATED VAGINAL AP-
is adapted for the treatment of the	No. 20 PLAIN RECTAL APPLICATOR—
No. 5 RAKE COMB APPLICATOR is preferred by some but the action	No. 21 PLAIN RECTAL APPLICATOR—
No. 6 SPINAL APPLICATOR is mostly applied to diseases of the blood	No. 22 PLAIN RECTAL APPLICATOR— 11/6 diameter 1.00 These three Applicators are adapted
No. 7 EYE APPLICATOR is intended for	for afflictions of the intestines and rectum. Per set. 2.50 No. 23 RECTAL APPLICATOR—Insulat-
eye ailments and some other spe- cial purposes	ed—14 diameter, is especially adapted for local afflictions of the rectum
also for eye ailments with the pur- pose of treating both eyes at the	No. 24 HEMORRHOIDAL APPLICA- TOR-54" diameter
No. 9 FULGERATION ELECTRODE is intended for physicians and derma-	TOR—)4" diameter
tologists in the removal of certain skin blemishes 1.50 No. 10 NASAL APPLICATOR—Insulated,	TOR—% diameter 1.00 These three Applicators, as the name indicates, are for the treatment of
is for affections of the nose and throat, also catarrhal afflictions 1.75	No. 35 PROSTATIC APPLICATOR designed to facilitate the treatment
No. 11 EAR APPLICATOR—Insulated, is designed for the treatment of ear troubles 1.75	of Prostatic allments
No. 12 INTERNAL THROAT APPLICA- TOR—Insulated, is for all internal	No. 37 PLAIN RECTAL DILATOR 44" diameter
No. 13 SATURATOR is valuable wherever	No. 38 PLAIN RECTAL DILATOR 1' diameter
a restorative or tonic effect is indi- cated and is used in combination with another person for massag-	These three Applicators have a par- ticular value in the treatment of Constipation. Per set
ing. It is a builder. It yields a dif- ferent current than the glass Ap- plicators which comes straight	No. 39 RECTAL DILATOR - Insulated, 5% diameter 1.5 No. 40 RECTAL DILATOR - Insulated,
from the transformer in the handle without the alterative effect of the	No. 41 RECTAL DILATOR—Insulated,
vacuum Applicator. It gives a gen- eral saturation and electrification of the entire body immediately 1.00	1" diameter
28	29

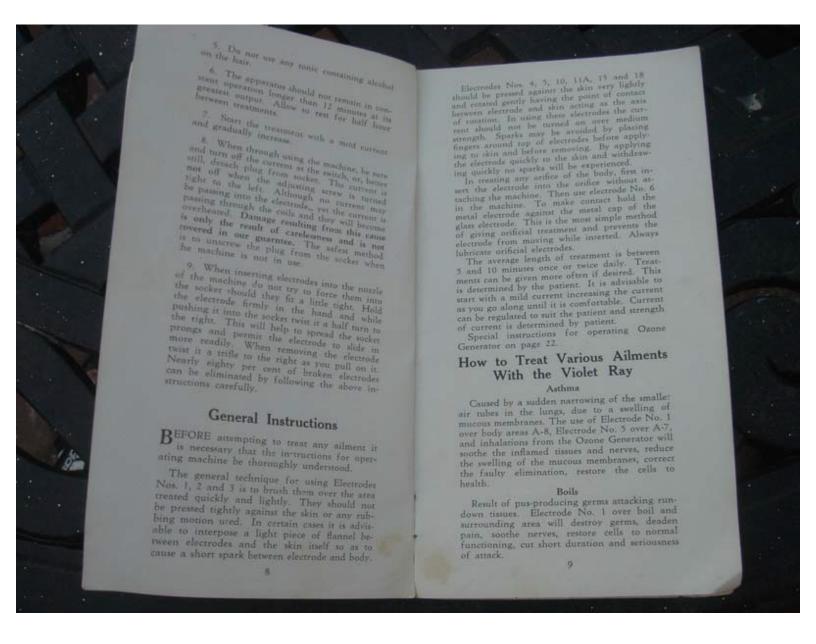
Dentists' Accessories	INDEX	Prige
No. 27-CATAPHORETIC APPLICATOR -Insulated-Type "A" for front	Abronses	19
teeth is purposely designed to fa-	Alchutlens Amenorrhes	-011-02
cilitate the application of chemical solutions used in the Dental pro-	Angua-Pectoria	
fession into the tissue 2.00	Applicators 0, 00, 2 and their use	CONTRACTOR AND
No. 28—CATAPHORETIC APPLICATOR —Insulated—Type "B" for back	APPLICATORS AND THEIR USE	A A SHALL SHALL SHALL
teeth-is for a like purpose applic-	Articular Rhenmatism	
able to the back teeth. This Ap- plicator may also be used on the	Asthma	
front teeth	Backlenda Blackhenda	
No. 29 DENTALOCAL APPLICATOR-	Beils Breaking of Cords	
Insulated, is particularly adapted to treat any local swelling or	Bronchills Bright's Discuss	
lesion of the gums 2.00	Bruises	
No. 30 GUM MASSAGING APPLICA- TOR—Insulated, in addition to	Carbundes CARE OF GLASS APPLICATORS	11 11 11 11 11
being valuable to the Dentist this	CARE OF GENERATOR	
Applicator is well adapted for home use. It strengthens, hardens	Catalepsy Catarrh (Nasal)	
and invigorates soft and bleeding	Charge of life	
gums besides being highly germi-	Cold In Head	**********
No. 31 PYORRHEA APPLICATOR—In-	Continuation of Muscles	
sulated, the name of this Appli-	Cord (breaking of)	*********
cator indicates its use 2.00	Crampa	Personal Like
No. 32 DENTISTS' CAVITY APPLICA- TOR—Insulated, is properly de-	Cyanosia	
signed for treating cavities and	Cystitia	
near fillings as this Applicator is	Dandruff Desfuess	
entirely insulated except at the extreme point which prevents the	Dentists' Accessaries	
current jumping from the stem to	Diabetes Diphtheria	
any metallic filling. This Applica- tor is also nicely adapted to treat	DON'TS	
small areas and cavities 2.00	Drug Habits	
NOTE: Besides the above we make many Appli-	Dysnemarrhea - Dyspepsia	
cators of Special design and are prepared to furnish	Eur Allments	
them for anyone on short notice.	Electrification of Body	
Prices of Parts	Epilepsy	
Violet Ray Instruction Book \$.50	Eruptions Erysipelas	
Extension Cord, sections 6 feet long.	Eye Allments	
equipped with plug and socket for attach-	Falling Hair	
ing to lamp socket	Feet	
Our own special coil Handle Cord, 6 feet long, complete with metallic connectors. 1.00	Flabby Breast	
Extra lengths of cord, 5c for each additional	Gastritis	
foot.	General Electrification General Tonic Treatment	
Regular Equipment Case with provisions	Goltra	
and clamps for the Generator and six	Gonorrhea (Male) Gonorrhea (Female)	
Applicators 3.00	Gout	
Professional Equipment Case with provi- sions and clamps for the Generator and	Gums Disease Handle	
tweive Applicators 4.00	. Hair and Scalp	
Battery case containing 30 dry cell batteries 10.00	Hay Fever Hendache	
Always buy from our nearest representative	. Hemarrholds	
more pussible. If you can't locate write us and	High Tension Coll Hip Joint Discuss	
The Wall See that well are promotely and eating	Hyperemia	
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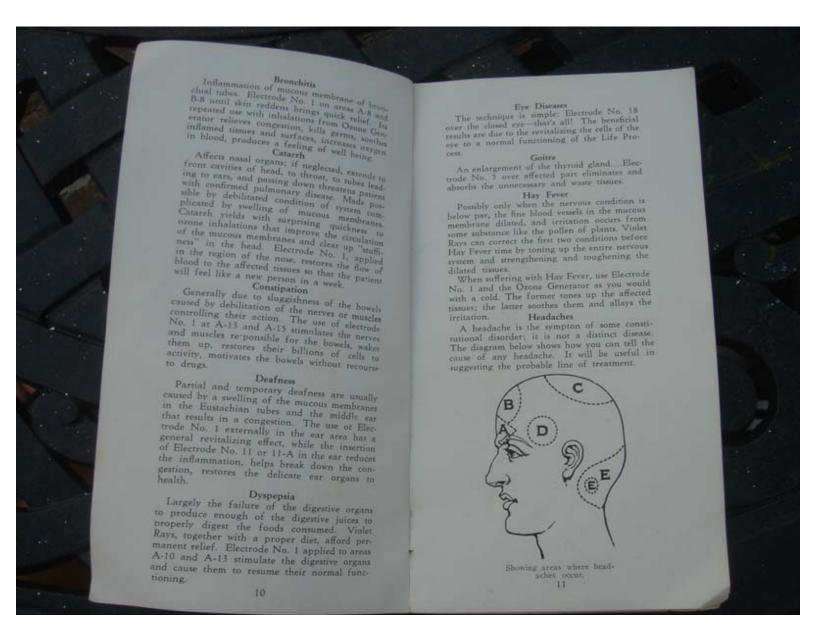


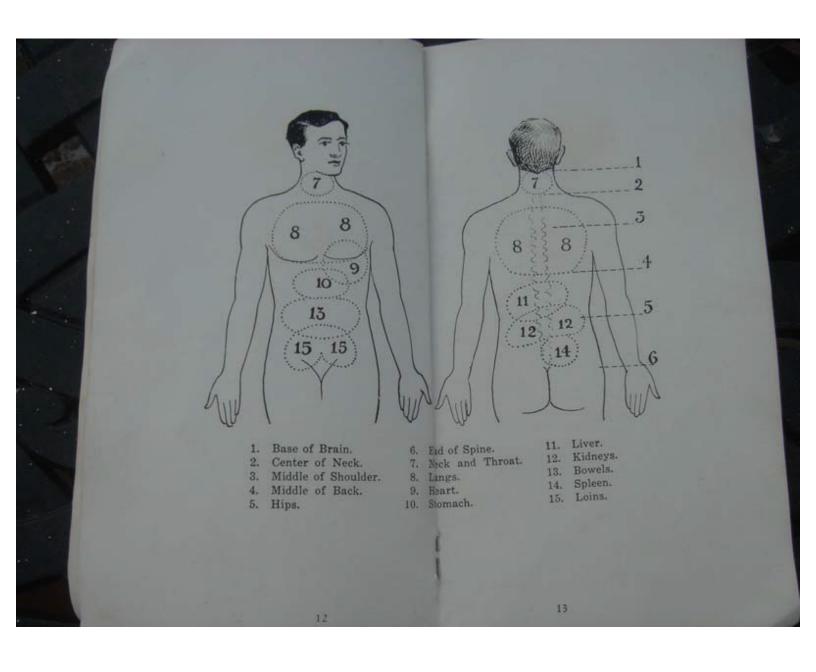












Headaches at A or B are congestive or frontal and may be relieved by passing Electrode No. 1 back and forth over the seat of pain. At A they may come from errors in refraction, frontal sinus disease or nasal disease. Stomach diseases also frequently cause pain at A. Constipation, A-B. Decay of front teeth, A.B. Anemia, endometritis, bladder disease, C. Middle ear disease, throat disease, eye disease, decayed teeth, D-E. Womb disease, spinal irriation, nervousness, E. Ovarian reflex pains usually at C and E. Neurasthenic headaches involve the back of the neck.

Insomnia

Adequate and refreshing sleep is necessary to good health. Inability to sleep is a very troublesome symptom and one which no one should neglect. There is no substitute for sleep and the act of medicine cannot supply its lack. Dependency on drugs is dangerous, depressing, and has often been fatal.

Using Electrode No. 1 at areas A-7 and B-7. tranquilize the central nervous system, equalize the circulation, restore the capacity to rest.

Influenza

An infectious disease, similar to a cold, attacking the respiratory organs, and debilitating the entire system.-Inhalations from the Ozone Generator at the very beginning often "kills" the disease before it gets a foothold. Their use shortens the sickness in all events by killing the germs. This treatment combined with the use of Electrode No. 1 over the spine eyes and sides of the nose, also allays the irritation of the mucuous membranes, builds up the sick cells, soothes the nerves, increases the general body vitality.

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Nervousness

derangement of the nervous functions. Readily relieved and overcome by Violet Rays Latest investigations show that Violet Rays not only soothe the nerves but actually rebuild the nerve rissue. Electrode No. 1 over the spine at areas A-7,



B-7 and A-13 usually produce immediate resuits. By holding Electrode No. 6 in the hand a few minutes each day, the results secured will be beyond your expectations; tension re-laxed, worries gone, the "blues" departed.

Neuralgia

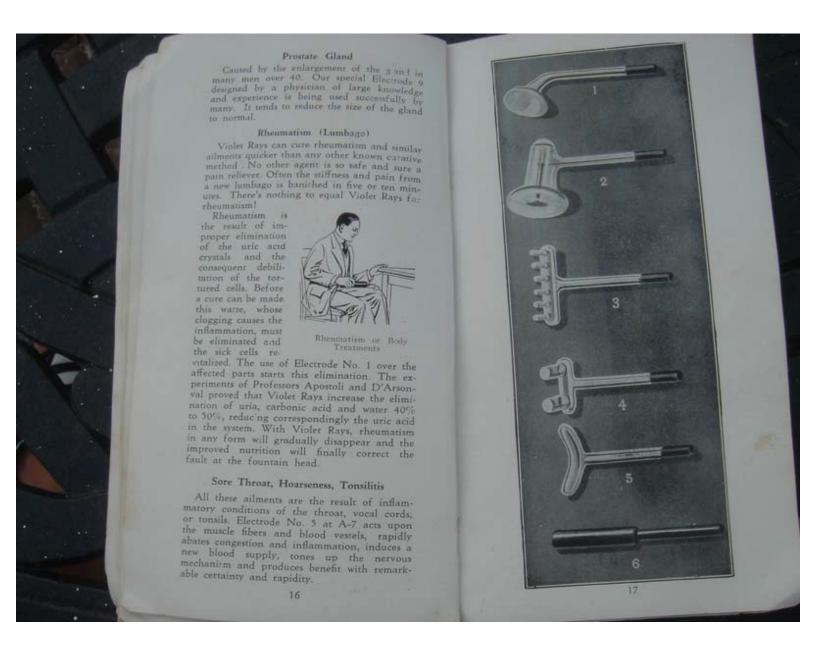
Caused by insufficient nutrition of the nerves Aided by Electrode No. 1, Violet Rays will unfailingly reach those starved, tortured nerves, stop the pain, start the blood circulating, force the dormant body cells to activity and feed the nerves. The first treatment may only give relief for a short time and the pains may return, but with lessening severity. Relief from the record treatment lasts longer and so on until the relief is permanent.

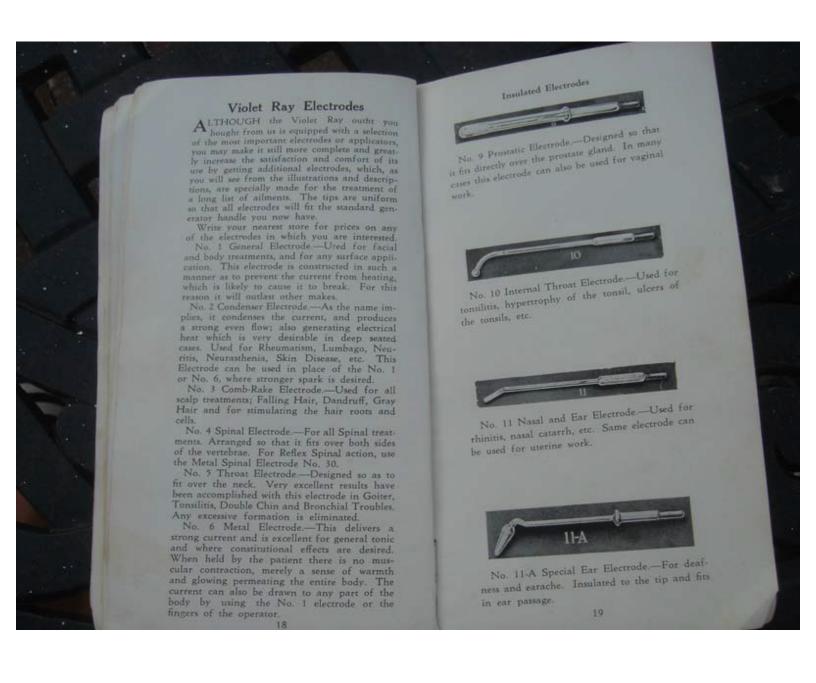
Neuritis

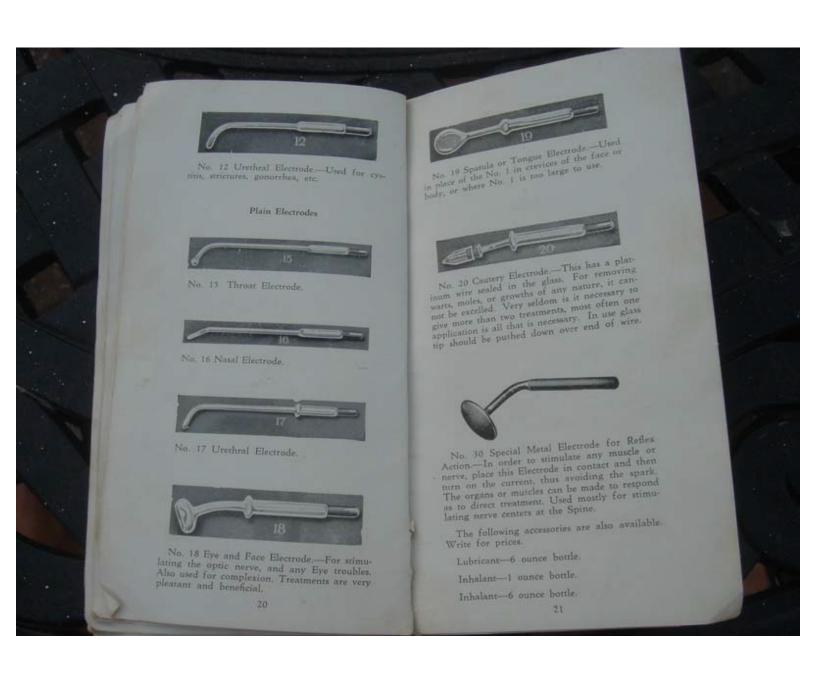
Inflammation of a nerve—is best treated by applying Electrode No. 1 to seat of pain. In cases where the pain is intolerable, the use of Electrode No. 6 and the indirect treatment is preferable. The general beneficial effects are the same as in neuralgia.

Paralysis

Not disease but a symptom of certain forms of injury causing the partial or complete loss of the muscle—While some good results may be secured by a very few treatments with Electrode No. 1 along affected area, more obstinate cases require several months. Violet Rays reach the seat of the trouble, stimulate the cells, start the Life Process functioning in the deadened tissues, awaken the rleeping nerve centers.









Ozone Treatments

WHENEVER an electric spark passes thru the air, Ozone is liberated. Ozone is known under the chemical symbol O3 and is a concentrated form of Oxygen.

Ozone increases the oxygenation of the blood and tissues and also increases the number of red blood corpuscles. Germs and toxins cannot exist in the presence of Ozone and are completely destroyed. Ozone is the most a oxydizing agent known.

Inhalations of Ozone are beneficial diseases in the same manner as pure a desirable, but it is particularly beneficial in a diseases of the Respiratory Organs, including Tuberculosis, Infectious Diseases, and all conditions where there is imperfect oxidation and where tissue resistance is below par. An Ozone spray has been demonstrated to be healing in ulcers.

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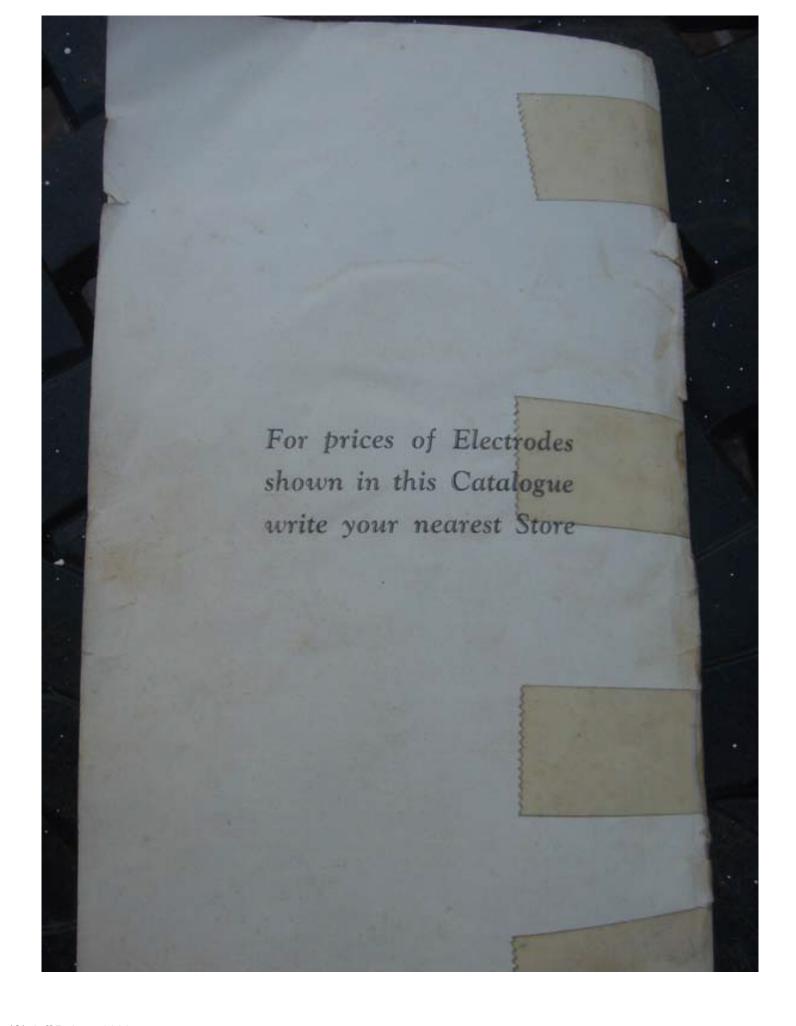
a poured into the receptacle, and when the rubber only is agitated, the Ozone hubbles thru this mixture and is inhaled in the form of a vapor.

When using the Ozone Generator, support the Violetfaction on a table so that it will not roll and
the Ozone Generator the same as any other
The hand must be in contact with the glass
he Ozone Generator. Fill receptacle with just
shalant to cover small hole which appears on
se of the glass tube. Agitate rubber bulb very
The rubber bulb should be in a vertical posiod be careful that the fingers do not cover the
subble at the end of the bulb.

The Ozone permeates every cell in the lungs, destroying any germ life and soothing the inflamed tissues. For Anemia, Hay Fever, Coughs, Catarrh, Asthma, Bronchitis, Insomnia, Nervous Debility and Tuberculosis of the Lungs, there is no better treatment.

The treatments are exceedingly agreeable and remind one of a trip to the pine woods.

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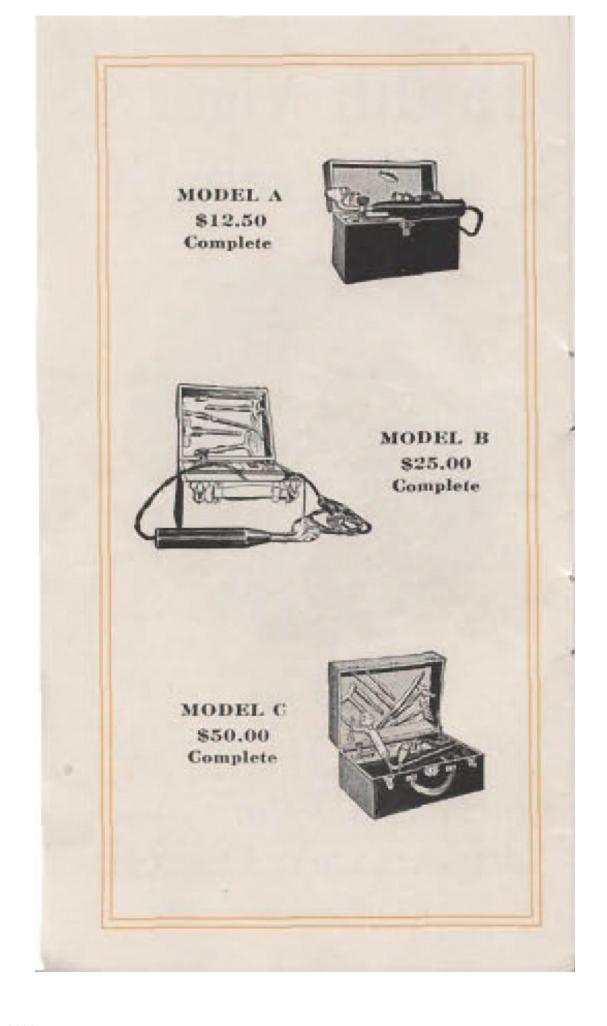
Health Vigor and Strength



Star-Rite Violet Ray

increases Vitality and drives away Disease

FITZGERALD MFG. CO., TORRINGTON, CONN., U. S. A.



THE AGE OF MIRACLES

T was Nicola Tesla who first put a transforming "atomizer" on the ordinary heavy are current, and nebulized the thick flow of the low voltage current into an electrical mist — traveling with incredible velocity.

It was this discovery that opened the door to wireless

telegraphy and wireless telephony.

It was the diffusion of the little particles of matter comprising the electric stream that brought a new era of electrical treatment into the world, and made possible the wonders of modern medical electricity.

For this diffusion splits up the particles of electricity so that they are more minute than the smallest blood corpuscles in our body — infinitely smaller than the finest

pores in the skin.

With the pressure of the misty, vapory current, raised from approximately 110 volts to hundreds of thousands of volts, the electric discharge can be passed through the body without meeting any appreciable resistance. For this high frequency current—as it is called—does not stop anywhere in the body long enough to stimulate undue sensation, or to cause any discomforting muscle fibre contraction.

Yet this pewerrating, vapory high frequency current will saturate every cell in the body — from head to foot filling it with new life and renewed resistance to fatigue, to disease, and to every form of abnormal functioning.

The high frequency, or "high potential" current, must not be confused with the old "interrupted current" of the galvanic or the faradic apparatus. These currents are relatively low in volume, voltage and in the number of "breaks" or "oscillations" per second. Any attempt to use this form of current necessarily produces severe and painful shocks—even with the very low amount of electrical fluid that can be employed.

But with the high frequency current the alternations rise to 10,000 or more per second, the amperage — which is chiefly responsible for the shock effect — is reduced very low; the voltage to hundreds of thousands — or even

millions per second.

THE VIOLET RAY

While there are a number of ways in which the high frequency current can be administered, perhaps the most universally used and generally acceptable is by means of

the "violet rays" which method has proven most successful. These rays are generated in vacuum tubes of various shapes—to facilitate the application of the current to various parts of the body.



When this stream of electrical force is directed into the vacuum tube electrode, the glass and the vacuum act as a "resistance." This "resistance," inserted at the end of a metal conductor, acts upon the current about as the small nozzle at the tip of an atomizer would act on an oil spray. It nebulizes it.

It transforms the dense flow of electricity into a fine, needle-like spray, that acts powerfully upon the nervous system, upon the cells and tissues, and upon the billions

of nerve and tissue cells that make up the body.

Heat, light, electrical energy, and pure life-giving ozone are generated through the glass vacuum electrodes of the violet ray.

WHAT INCREASED OXIDATION MEANS

The introduction of ozone into the system, which comes from the application of the glass vacuum tube of the violet ray apparatus, has a profound effect upon the entire body.

It tends to burn up or oxidize fatigue poisons, which have accumulated in the system, the "end products" of proteid metabolism, which may not have been reduced because of lack of oxygen and ozone in the system, and generally to stimulate all the processes of metabolism and assimilation.

The removal of these toxins from the system clears from the organism a mass of material so highly poisonous in its nature that one drop of the concentrated essence, if injected into the circulation of a rabbit or a guinea pig would prove instantly fatal.

Ninety per cent of all the diseases to which mankind is heir — excepting only those produced by acute infections, or by conditions which might be construed as surgical in their nature — are the result of a deficient

oxygenating power in the system. Because of this one may suffer from headache, neuralgia, neuritis, rheumatism, lumbago, sciatica, every form of nervous debility and irritability, and all the manifold symptoms which result from a disturbance of the proper functioning of the body metabolism.

It is because of this fact that the application of the STAR-RITE VIOLET RAY — the most compact, efficacious and economical of all forms of violet ray treatment is so effective.

The wonderful concentration of electrical power in the STAR-RITE VIOLET RAY stimulates the blood to combat disease germs of every kind, and to increase the amount of the protective substances, therein, which prevent one from becoming "run down" or debilitated.

TO THOSE WHO BECOME TIRED

Every person who tires out readily or who lacks resistance and endurance, must be interested in the constructive and rehabilitating effects of the STAR-RITE VIOLET RAY.

The feeling of fatigue in the muscles is a result of prolonged work in the contracting or extending of the muscle, or in concentrating the mind upon some one particular subject to the exclusion of all other interests. This is due to the combustion, or burning up of the substances used to supply energy to the muscles — and to the accumulation of the waste products of muscle work, which products collect more rapidly than they can be excreted from the tissues.

Over-fatigue gradually reduces the power of muscle contraction, so that if, for instance, the arm muscles have been overtaxed by chronic fatigue, we have the distressing and anxiety-producing condition known as "writer's cramp." There are estimated to be more than fifty thousand cases of "writer's cramp" in this country. How many more there may be of "telegrapher's cramp," "pianist's cramp," and other forms of localized fatigue effects there can be no possible method of computing.

But in every case of fatigue neurosis, there must be one underlying factor — and that is over-accumulation of fatigue poisons. In every case this over-accumulation of fatigue poisons responds to the effect of increased oxidation, as developed by the consistent and intelligent use of the STAR-RITE VIOLET RAY.

For in every case the excess of carbon-dioxide in the motor centers, which makes the cells dull and heavy

and drowsy, is overcome by the development of ozone and oxygen, which electricity, in the form of the high frequency current, quickly and easily accomplishes.

THE VIOLET RAY APPLIED TO DIGESTIVE DISORDERS

The STAR-RITE VIOLET RAY also has a profound effect upon digestion, because of the fact that it stimulates an increased flow of blood to the digestive organs, from which rich digestive ferments can be developed.

It has been estimated that, following the use of the STAR-RITE VIOLET RAY over the stomach from



fifteen minutes to a half hour after meals, fourteen times the amount of the previous blood supply is developed. What this means in the way of producing more active secretion of digestive enzymes and in stimulating a definite increase in the digestive power, can only be realized after noting the effect of the STAR-RITE VIOLET RAY in cases of indigestion accompanied by a low state of tone of the digestive organs and a deficient blood supply to these organs.

THE VIOLET RAY AND THE CIRCULATION

And one of the chiefest benefits of the high frequency current, as developed in the STAR-RITE VIOLET RAY, is the stimulating effect it has upon normal circulation overcoming weak, vacillating action of the heart muscle and the circulatory apparatus that result in cold extremities, pallor, dizziness and vertigo, chilliness and extreme susceptibility to the influences of cold air or cold weather.

HOW THE STAR-RITE VIOLET RAY AFFECTS DEEP BREATHING

One of the most noticeable of the effects of the STAR-RITE VIOLET RAY is its influence upon respiration.

This is because of its stimulation of the vagus nerve and the two sets of nerve fibres, one of which increases the activity

of inspiration and the other of expiration.

Almost invariably, it will be noticed that the application of the electrode of the STAR-RITE VIOLET RAY more especially over the pneumo-gastric nerve at the pit of the stemach — will be followed by a deepened inspiration. This, in itself, is a powerful factor in increasing oxidation and in beloing to overcome the influence of toxins which may have accumulated in the blood stream, or be stored up in the muscles or joints of the body.

The stimulation of respiratory energy in debilitated states increases diminished breathing capacity to as nearly normal as the lung cells will permit, and where there is an excessive amount of organic damage helps wonderfully in restoring the whole mechanism — both chest and lungs to their normal condition. This increases the intake of oxygen and the output of carbonic acid, absolutely necessary in restoring the normal balance in any pathological

state of the organism.

HOW THE "HIGH POTENTIAL" INFLUENCES THE SKIN

The skin is one of the most complex organs of the body, with a wonderful and complex function. It plays its part in the excretion and radiation of heat, and in the support of organs, blood vessels and muscles, and profoundly influences respiration and heart pressure. Its infinitely fine net-work of capillaries and nerves, and its intimate connection with every internal organ in the body, give it vital importance in the physical and physiological economy, not to be overestimated.

THE STAR-RITE VIOLET RAY acts as a tonic, stimulant, sedative and alterative to every cell and fibre of this marvelous and intricate covering. By properly directed treatment, we can tone up the muscle fibre and glands which are the very foundation of physical well-being; we can contract or dilute blood vessels, drawing to the surface more blood or dissipating the accumulation of surface blood.

as occasion may require.

We can increase the breathing capacity of the skinregulate the amount of perspiration, relieve pain when scusation is acute, cure many of its lesions, and comfort in divers and manifold ways.

Even from the standpoint of beauty we can stimulate the skin so as to remove blemishes, clarify the complexion,

brighten the eyes, bring roses to the cheeks and paint the hue of healthful functioning over the entire surface of the body.

THE SPINE AND ITS MARVELOUS CONNECTIONS

Every organ and every function of the body are either directly or reflexly connected with the great nerve in the center of the spinal column, or with the intricate plexii of nerves that radiate from each of the vertebrae thereof.

It is for this reason that some of the most marvelous results known to medical science have been attained in conditions that seemingly had no connection with the spine, by the application of the STAR-RITE VIOLET RAY to the spinal column.

The profound influence of the high potential current in stimulating the millions of microscopic nerve cells into normal activity, overcoming localized congestion which interferes with the free circulation or nutrition of certain blood distributions, is manifest in the application of the STAR-RITE VIOLET RAY. No drug known to medical science can accomplish the results which are of common-place, everyday occurrence with the high frequency electric current. Nothing that physicians know of diet, hygiene, or any medical method, has ever produced the effects which are almost routine with the STAR-RITE VIOLET RAY.

By relieving the brain and the nervous system of the influence of toxins which might otherwise keep them awake and irritable, it brings restful sleep. It stimulates cell activity because of the pronounced effect it exerts upon nerve and muscle fibre, and thereby brings about the restoration of normal physiological tone.

It benefits all diseases due to a slackening of the nutritive functions, or a decreased combustion of the uric acid, urea and organic toxins generated in the normal processes of

physiological activity.

It increases strength and vital energy. It stimulates the feeling of well-being — the ability to perform increased work. It improves the appetite, indigestion and assimilation. It favors elimination by stimulating the normal activity of the kidneys, bowels and skin. It overcomes local and general pain, and is almost universally dependable in gout, rheumatism, lumbago, sciatica and all diseases resulting from the retention of waste products in the system or the imbalance of normal metabolism.

THE METHOD OF APPLICATION

The method of applying the STAR-RITE VIOLET RAY is so simple that a child can manipulate the device, once he has been shown. It merely requires that you insert the attachment plug into the nearest lamp socket and then turn on the current. If the machine does not begin to operate, turn the regulator to the right until it does. Turning to the right increases, and to the left decreases the strength of the current coming through the electrodes. This regulator is not a shut-off or switch, but simply regulates the strength of the current. When you are through using the VIOLET RAY detach the plug from the lamp socket or receptacle.

This machine requires absolutely no oiling of any kind. If electrodes become loose in the handle unscrew the end of the handle, remove the applicator socket, and press the holder together sufficiently to make a tight connection. If the electrodes should break while in use the same method must be resorted to, i. e., remove electrodes from the applicator holder.



ATTENTION

The VIOLET RAY should not be used on the scalp or any part of the body while the same is being treated with water or any other liquid preparation. It is the same as any other electrical device, and of course must be handled accordingly.

Care should also be observed that the machine be not used while you are standing in the bathtub or "ground" contact with a water or radiator pipe, or any other metallic device that might complete a short circuit.

GENERAL INSTRUCTIONS

The following instructions are written in the simplest way, and will give excellent results if properly followed.

There are many text books for those who desire to study deeper into this subject and we would be glad upon your request to send you the latest information covering them. We recommend that VIOLET RAYS, at all times be used in conjunction with advice received from the owner's physician.

The diseases or disorders which the VIOLET RAY is especially qualified to help are so varied in their nature that, instead of grouping them, it is thought best to consider their treatment in alphabetical order. This will also make it easier to find the treatment for the particular ailment from which you may be suffering. Wherever possible, especially when the electrode is to be used in direct contact with the skin, it is well to insure thorough dryness of the surface by dusting over the skin a liberal application of talcum, stearate of zinc, or some other dusting powder. This will facilitate the moving of the electrode to and fro on the surface of the skin, and make the treatment much more pleasant and easy to take.

ABSCESSES—Use medium current, and keep Electrode
No. I in contact with the skin. Move it gently over the
surface affected for four or five minutes. Many medical
men speak in the highest terms of the utility of the VIO-LET RAY in these conditions or even in those grave
abscesses of the mastoid bones which ordinarily result
in operation. In the beginning stages, or period of incubation, treatment should be given twice daily. In the acute
stage, with chills, fever, headache, nausea, fifteen-minute
treatments should be given at half-hour intervals, until the
fever subsides and the patient perspires freely.

ACNE (Pimples)—Apply Electrode No. 1 for about five minutes to the entire surface affected, using the current as strong as can be comfortably borne three or four times daily. For BOILS or CARBUNCLES the length of this application should be extended. Fifteen-minute applications, two or three times a day, are none too many. The persistent and careful application of the high frequency current in these conditions not only affects their formation, but seems to relieve the induration and improve the general condition of the skin.

ALOPECIA—(Falling Hair)—Use Electrode No. 4, starting with a mild current, and gradually increasing until there is a decidedly sharp tingling sensation. Pass the electrode back and forth over the entire scalp twice daily, morning and night, for about ten minutes. Many patients

have, after about fifty applications of the VIOLET RAY, found that their Alopecia disappeared, and strong hair grew out of the former bald patches. It is wise sometimes to rub the glass electrode over the bald patches until a bright redness is produced, which result is usually brought about in three or four minutes. If this feeling of warmth can be easily induced, and if it persists for some hours after each application, it is almost certain that much good of a lasting kind will be accomplished by this method of treatment.

ANEMIA—A p p l y Electrode No. 1 about seven or
eight minutes, using a medium-strong current, and giving a "general body treatment." The region of the
spleen on the left side should
be very thoroughly treated
and careful treatment should
be administered along the
course of the spine for five
minutes at each treatment.
This is intended to stimulate
the organs of digestion and
the processes of metabolism
and assimilation.



It helps materially in the production of new red blood cells and increases the oxygen-carrying power of the red corpuseles, besides developing ozone, which is carried to every cell and tissue in the system.

BACKACHE (Lumbago)—Use Electrode No. 1 and treat the entire area affected for fifteen minutes at a time, repeating the treatment twice daily. Very often one or two treatments will afford a marvelous degree of relief in these conditions.

BLACKHEADS—Treatment with Electrode No. 1, two or three times a day, markedly stimulates the general nutrition of the skin and helps local corrective measures with unguents, steaming hot towels, and applications of cold water or "ironing" with a piece of ice—all of which are effective measures.

BRONCHITIS—Sharp sparks, sufficient to produce a reddening of the skin, which may be produced by holding the electrode an inch or more away from the surface, should

be administered over the entire chest. This treatment should continue for four or five minutes, repeated three or four times daily, and be followed in each instance by a general treatment on the surface of the skin with Electrode No. 1. Use Ozone Generator No. 16, which will also be beneficial.

BRUISES—Use Electrode No. 1 with a medium current to the affected spot. This should only be applied for a few minutes, and if possible the area should be thoroughly powdered before the application of the electrode. Very rapid results can frequently be secured in this condition, because of the fact that the circulation of the blood to the parts is stimulated, the stagnant blood being carried out and a new supply of rich, health-building blood brought to the parts.

CALLOUSES—Use strong current, through Electrode No. 1. Spark the skin for a minute and then apply the electrode in contact with the skin, moving slowly over the affected section.

CATARRH—The use of Ozone Generator, our No. 16, usually gives relief. Apply Electrode No. 1 with a mild current over surface of nose and back of neck. A general tonic treatment over the entire surface of the body usually helps Catarrh. In Stomach or Intestinal Catarrh, or conditions of long standing, the treatment should be very persistent. Sometimes it may take three or four months before a decided benefit may be experienced.

COLD EXTREMITIES—Use Electrode No. 1 with a fairly strong current for approximately five minutes over the affected area until a redness is produced on the skin. Keep electrode in contact throughout treatment.

COLDS IN THE HEAD—Ozone inhalations are usually a relief for colds of this kind. Also an application of No. 1 electrode over the forehead, nose and sides of face, with a mild current twice a day is relieving. A general tonic treatment, by application of the electrode to the chest, abdomen and spine should always be a part of the treatment for colds, as it will assist in increasing resistance and hasten convalescence.

DANDRUFF—Use electrode No. 4, rubbing it gently over the scalp every day for three or four minutes with a mild current. Shampooing the scalp weekly is advisable, but never force a treatment, or do not use any hair tonic, whatever, or apply the electrode while the hair or scalp is moist in any way.

DYSPEPSIA—Apply Electrode No. 1 with a strong current over the region of stomach with an application lasting five minutes daily. This should, in sufficient time, show marked improvement. In all cases of Dyspepsia, spinal treatment is most beneficial, especially over those vertebrae which lie on that part of the back between the lower border of the shoulder blades and the upper border of the hips.

ECZEMA—Place handkerchief, gauze or thin cloth over affected area. Use Electrode No. I, with a mild current, treat each day for about four or five minutes. If possible increase the current strength, especially if it is a case of long standing.

EYE TREATMENT—Use Electrode No. 6 or No. 7, with a very mild current for a short period of two or three minutes. Close the eyelids and repeat this treatment daily. Where the eyes are tired from overwork, or from working under electric lights, this treatment will be found exceedingly restful, at the same time stimulating the optic nerve to increased vitality.

GOITRE—There are cases that yield to the treatment of the VIOLET RAY. Use No. 3 electrode with as strong a current as possible without too much discomfort, and treat through a thin handkerchief or gauze instead of direct through the skin. It should be treated daily from three to five minutes.

GRAY HAIR—VIOLET RAY has brought pleasing results in the treatment of gray hair. We recommend Electrode No. 1, using three to four minutes daily. It is, of course, necessary to use this treatment for a number of weeks before any distinct hope of improvement can be expected, but it is astonishing how many cases will respond to this treatment.

HAY FEVER-Treat the same as for Catarrh.

HEADACHE—Apply Electrode No. 1 with a mild current over forehead and down the back of neck. If this does
not give relief treat the stomach with an application of
Electrode No. 1, using for two to three minutes, and an
occasional application down the spine. It is almost unnecessary to state that in every organic disorder careful attention should be paid to the condition of the bowels. At least
two daily movements should be secured, in order to help
carry off the poisons generated in the system.

INFLAMMATIONS—Electrode No. 1 will many times produce a relief to the affected area. Use a medium current for about three to five minutes. Local applications of extremely hot or cold water after treatment, sometimes prove of great assistance.

INSOMNIA—Apply Electrode No. 1 to the back of the head, neck and eyebrows for three to five minutes with as strong a current as user can tolerate. A five-minute application along the spinal column is of very great benefit in this condition. It is advisable to have some one else make these applications wherever possible, as sometimes the attempt by the patient himself to apply the treatment has the effect of stimulating wakefulness.

LUMBAGO—See BACKACHE.

MASSAGE—Electrode No. I is used and application through gauze or handkerchief is advantageous. As strong a current as possible is recommended, and the stronger the current the less time is required for the massage.

MOTH PATCHES OR MOLES—Apply Electrode No. 1 direct to the affected spot for just a few seconds. Short applications are very beneficial. It is advisable in these conditions to give the spark treatments, also using as strong a spark as can be borne. This helps to break up the pigmentation, and remove discolorations.

NERVOUSNESS—Use Electrode No. 5. Massage over the spine and give an application of Electrode No. 12 to the back of the head and neck, as this is very beneficial. In all cases use a very mild current. Application of three to five minutes is recommended.

NEURITIS—Use Electrode No. 1 over the affected area for four to five minutes daily. If the case is very stubborn you may repeat this application twice each day, using a medium current and increasing it as the user becomes accustomed to the application. In most cases this gives almost immediate relief.

NURSING MOTHERS—Great benefits frequently follow the use of the VIOLET RAY in the case of sursing mothers. Electrode No. 1 should be used gently over the breasts for five to seven minutes at a time, repeating the treatment at least three times a day.

PAINS—VIOLET RAY is an unusual pain reliever. In most case; the application of Electrode No. I to the affected spots gives almost immediate relief. A mild current is recommended.

PARALYSIS—VIOLET RAY is recommended in the relief of this malady. This is treated with Electrode No. 1 moving it along the affected muscles with a strong current. The application of a spark through a Turkish towel also is

beneficial, and with treatment of this kind for five to six minutes daily, relief should be felt.

PILES—VIOLET RAY is recommended for the treatment of this affliction. Electrode No. 8, properly lubricated before insertion, is recommended. We suggest that in this treatment you confer with your physician.

RHEUMATISM—For rheumatism, strong currents are recommended. Electrode No. 1 is recommended and should be applied to the affected area until the pain lessens. An application of five to ten minutes is advisable, and can be applied as often as the user desires. We suggest treatment through a cloth, or through layers of thick Turkish toweling.

SCALP TREATMENT—See ALOPECIA, DAN-DRUFF and GRAY HAIR.

SKIN DISEASES—See ACNE and ECZEMA.

SCIATICA, STIFF JOINTS and STIFF NECK—See RHEUMATISM.

SORE THROAT—Electrode No. 3 is used with a mild current. Keep in close contact with the skin and use for three to five minutes. If it is a stubborn case, use twice daily. Applications of cloths, wrung out of cold water, may be employed after each treatment, leaving the cloth on for several hours if necessary.

SPRAINS—Contact applications with Electrode No. I, using a mild current with now and then sharp sparks through a towel, as a rule give considerable relief.

ULCERS-See ABSCESSES and ACNE.

WARTS—Use Electrode No. 1, letting the sparks pass through the side instead of the face of the electrode to the affected spot. Use as strong a current as possible. Treatment should last three to five seconds. Apply every three days.

GUARANTY

THE STAR-RITE VIOLET RAY is guaranteed for one year from date of purchase, against any defects in material or workmanship of any kind. THE STAR-RITE VIOLET RAY is made out of the best material, selected for its efficiency and durability, and the machines manufactured and assembled by skilled workmanship.

No One Knows What Life Is

The greatest scientists believe it may be a form of electricity.

The results of

Violet Ray

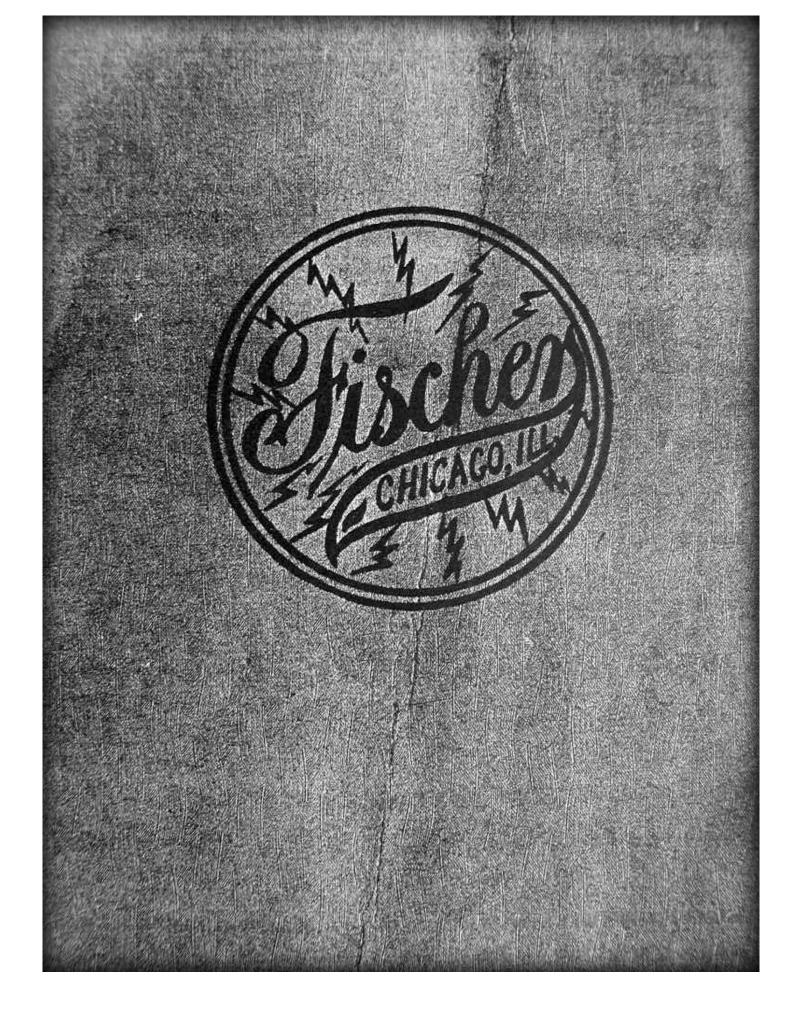
Treatment

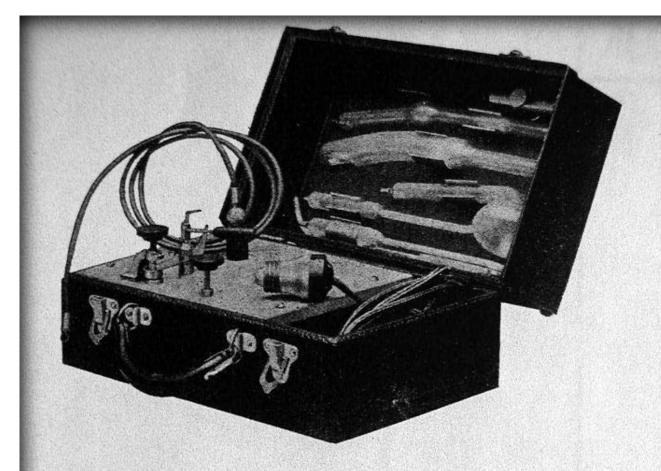
almost warrant the belief in the age of miracles. It shines forth as the outstanding method of achieving the miraculous.

It is estimated that in this country two hundred and fifty million dollars are lost every year, through sicknesses not grave enough to demand the services of a physician; while the loss that results from over-fatigue or the lowering of vitality and endurance is, from the economic point of view, even greater than that caused by illness.

Many of the ablest specialists in electrical treatment contend that 90 per cent of this loss could be prevented by the proper use of the VIOLET RAY.

Form 93 50,000 4-1-24





Type "F"

Complete Physician's Portable
High Frequency and
Violet Ray Generator.

Manufactured by

H. G. FISCHER 2009-11 Raymond St. CHICAGO ILL. There is no quackery or uncertainty about it, and it is not put forward as a "cure-all", but being a thorough cell massage and peculiarly healthy stimulant, its intelligent use is a wonderful aid in restoring the normal equilibrium wherever it has been disturbed and the physical condition impaired from almost any cause, and used as directed with ordinary discretion, its results are almost universally beneficial and never harmful.

The practitioner once initiated into the results obtained from the use of high frequency high potential violet ray currents such as generated by Type 'F' finds their use absolutely indispensible.

We pride ourselves in the extreme high frequency produced by Type 'F' Violet Ray Generator. We have a current here that the Physician can use with absolute safety to himself and his patient, and rest assured that he has done all that can be done in the shortest possible time.

Type "F" is not a toy and we want to call your attention to the fact that when Button E is pressed to bottom, you have a powerful current to deal with. A current that may aggravate or even burn your patient, when used where not indicated. (We refer chiefly to internal treatments.) Therefore we say play safe, doctor, and remove Button E entirely when you are doing delicate work. This will positively assure you that you are using currents of highest possible frequency.

No other outfit has this feature and the physician using other outfits is compelled to regulate as best he can with a current of medium power, which is neither high nor low enough in frequency to cover all cases.

Bear in mind that all internal treatments must be made with extreme high frequency to avoid discomfort to the patient and Plug "E" must be pulled out.

Another feature combined in every Type "F" is a Tesla Coil protector, which insures long life and enables us to guarantee it for twice the length of time of any other coil. Hence our statement it will outlive you.

Type "F" outfit is substantially built upon White Italian Marble, and is inclosed in a plush lined case with steel Valence The outer trimmings being of brass heavily nickel plated.

GENERAL INSTRUCTIONS

For the use of high frequency violet rays generated by Type "F" outfit

We recommend the more detailed method of instruction as given in the following text-books.

High Frequency	Manual	Eberhart	\$2.50
High Frequency	Currents	Strong	3.00
Carrents of High			

The following are a few suggestions for treating diseases taken from cases where physicians have obtained excellent results. Not all of them through high frequency alone, but as a valuable adjunct in the treatment thereof.

Abscesses Electrode No. 1. Keep in contact with skin and treat for 5 to 7 minutes with medium spark high frequency current.

Acne The fulguration electrode No. 20 is used for quickest results. Cauterize the larger pustules and treat the entire surface affected with the No. 1 Electrode for a few minutes.

Acne Rosacea Electrode No. 1 or No. 2. Medium frequency. Keep electrode away from surface to get cauterizing effect of spark. Duration of treatment to be decided by severness of case. Where much surface is to be covered lengthen time to 10 minutes.

Read Eberhart's Manual, pages 164 to 168.

Alopecia Electrode No. 1 or No. 11. Use medium frequency over the scalp for 5 minutes. If current is too strong use higher frequency and lengthen the time.

Anus Fissure of Electrode No. 2 is to be used. Treat about 4 to 6 minutes with high frequency current as strong as patient can bear without discomfort.

Diagnosis like Criticism is of little avail unless it travels hand in hand with Remedy, Treatment and Cure.

Headache When not caused by stomach apply Electrode No. 1 with medium spark high frequency over forehead and back over the ears to back of neck. Occasionally down the spine.

Hemorrhoids Use rectal electrode No. 2 or 12. Use delicate High frequency current. To remove use fulguration Electrode No. 20.

Hypertension Auto condensation produces most rapid results.

See Arteriosclerosis.

Hypotension Apply Electrode No. 1 to spine with heavy spark.

Impotence Use insulated rectal Electrode No. 12 across the genitals with medium to high frequency current, for 4 to 6 minutes.

Influenza Breathing through ozone generator brings immediate relief. Follow with treatment over sides of nose and in some cases use nasal electrode internally.

Lumbago Electrode No. 1 with sharp spark over and beyond painful area. Treat every other day for about 6 minutes.

Massage Electrode No. 1. Medium or low frequency as preferred by patient. The lower the frequency and the sharper the spark the shorter the time required for treatment. Through heavy gauze is ideal.

Moth Patches or Moles Fulguration Electrode No. 20 with medium or high frequency, Do not overtreat as 1 to 2 minutes suffices over a small area.

Nervousness Treat over spine with medium to high frequency. Daily treatments at first, followed by treatments every three days for about one month.

Neuritis Surface Electrode No. 1, heavy current high frequency. Relief almost instantly. Do not treat over same surface over 5 minutes, but treat twice daily if at all possible. Results are most pleasing even in chronic cases.

Paralysis Electrode No. 1 with sharp spark of medium frequency. Apply over muscles in contact and by patting. Raising the Electrode about 1-4 to 1-2 inch above the surface. Treatments should be made daily and be of 4 to 8 minutes duration.

Prostatic Diseases Special Electrodes are made for treating diseases of the prostate, but excellent results have been obtained by use of Electrode No. 12, in reducing enlarged prostate. A mild medium frequency is used for 5 to 10 minutes.

Pyorrhea Alveolaris Apply Special Dental Electrode No. 19 to gums for 3 to 5 minutes, using high frequency and in direct contact with the gums.

Rheumatism Combine treatments as given in Neuritis and Paralysis.

Rodent Ulcer Best results are obtained with X-Ray. Fulguration Point No. 20 has been used to destroy the affected tissue.

Skin Diseases The Dermatologist will find many uses for the high frequency current due to its cauterizing, escharotic and antiseptic properties. Read any good book on the subject of high frequency or high potential currents.

Sciatica Body Electrode Medium frequency. Apply for 5 to 7 minutes.

Stiff Joints Apply as for Neuritis with longer treatment if deemed necessary.

Throat Diseases Use Throat Electrode No. 5 or No. 18 with mild current high frequency. Finish by treating above and below larynx with Electrode No. 33. Duration of treatment about 8 minutes.

Torticollis (Stiff Neck) Treat back of ear and down back and sides of neck. Use Electrode No. 1 with sharp spark medium frequency; patting the surface gently. Give treatments of 10 minutes or longer.

Trachoma Apply eye electrode No. 8 with highest frequency. Treat over closed eye lid for one to 3 minutes.

Ulcers (Chronic) Treat through gauze with as sharp a spark as can be tolerated, using Electrode No. 2 or surface No. 1. Ozone generator can be used to advantage by employing the spray.

Uterine Diseases Use Electrode No. 13 and apply with highest frequency for short periods. Beneficient results are always obtained.

Don't let your patient sit close to a radiator while treating. Don't let your electric light burn too near your patient. Remember you charge him with 60,000 volts and the discharge of current from his body to the surrounding air will soon burn out your lamp.

Don't expect results too soon. Don't limit the use of your coil to one or two cases only, write for latest

Don't blame your coil if you cannot get a spark, look at your own wiring. text books. The coil is made under a guarantee and is carefully inspected.

And don't forget we have other electrical goods of equal quality.

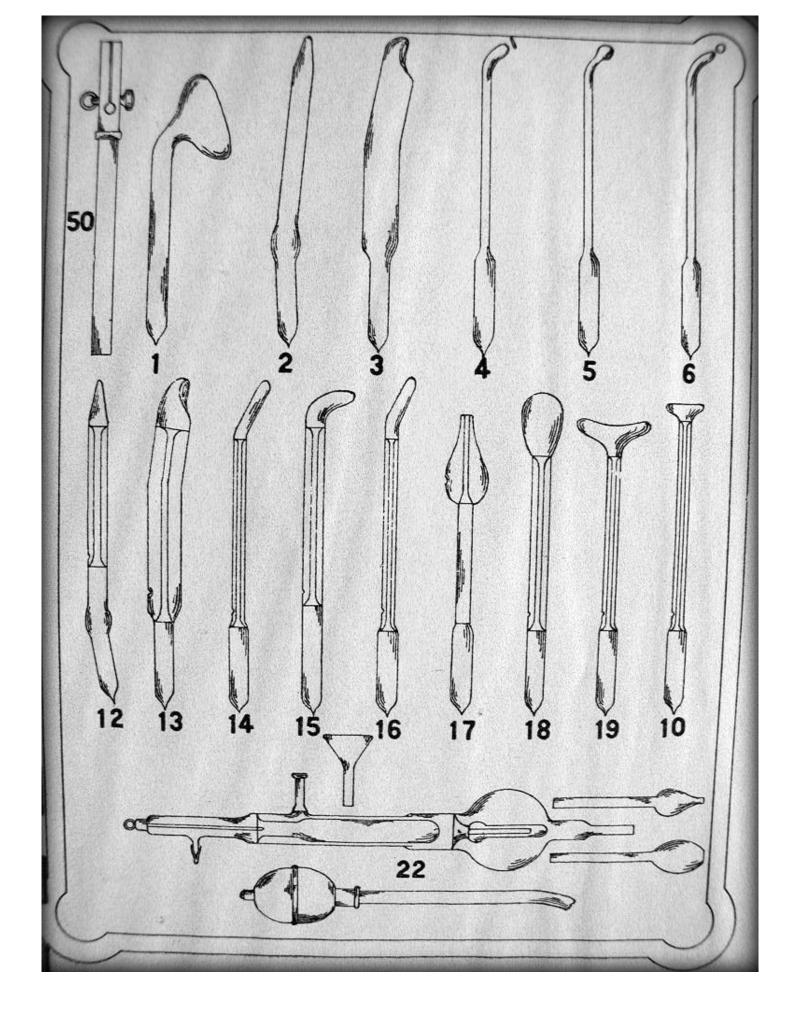
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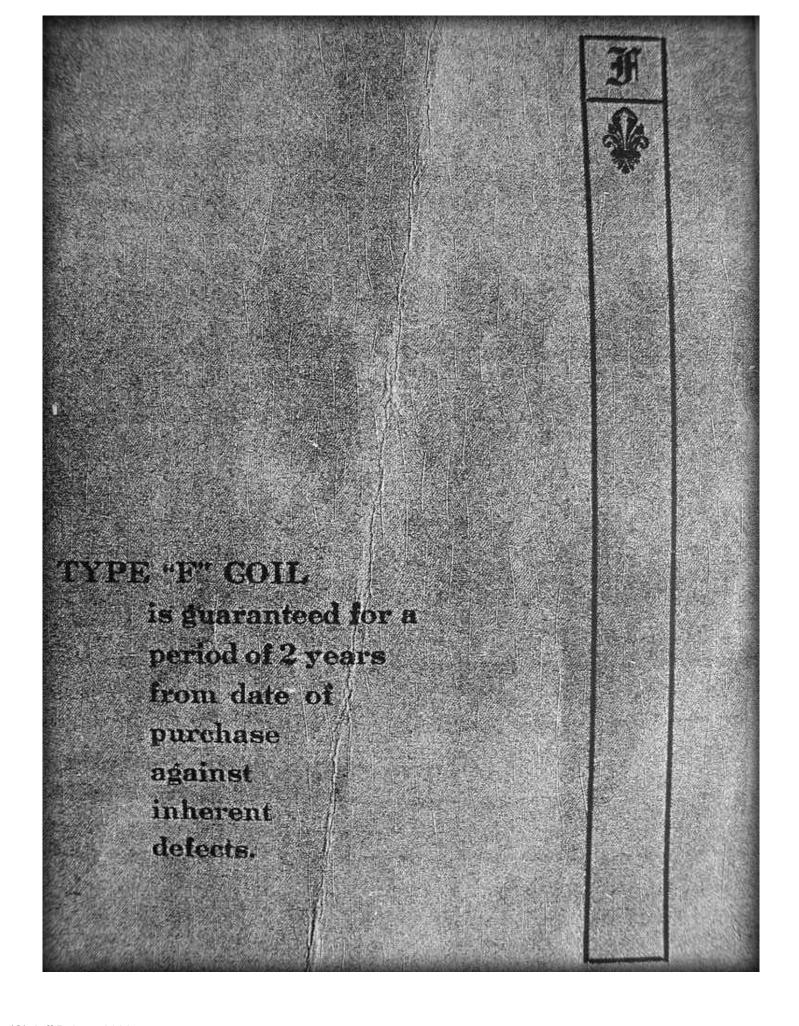
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14. Nasal insulated	5000000
15. Post nasal insulated	3 (CA54)
16. Urethral insulated	10000
17. Ear. insulated	2002.000
18. Tongue, insulated	2007.00
19. Dental, insulated	2000
20. Fulguration 2.0	25/20/50/
21. Ozone generator	
22. Ozone generator complete with bulb	30000
30. Corn Electrode	75
33. Throat Electrode (outer)	75
50. Universal handle insulated	53/2/6/21
51. High frequency cord (heavy)	
92. Metal handle for indirect treatments, extra long	
53. Glass handle for indirect treatments	
501. Cautery handle adjustable to 5 positions	
306. Cautery Cords per pair	
500. Cautery knives any shape	3.73O.III
Complete set of SNOW'S electrodes Nos. 1, 2, 3, 4, 5, and 6 3.5	

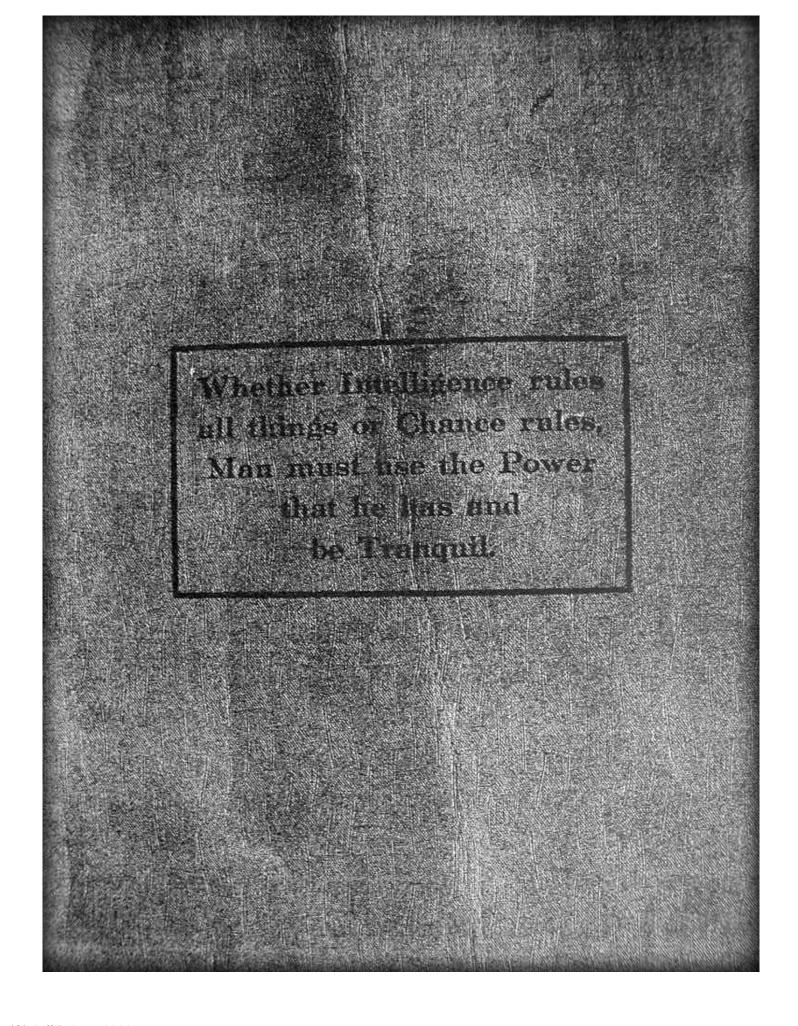
We also Manufacture and carry in stock a complete line of Electro Therapeutic Apparatus, which includes the following;

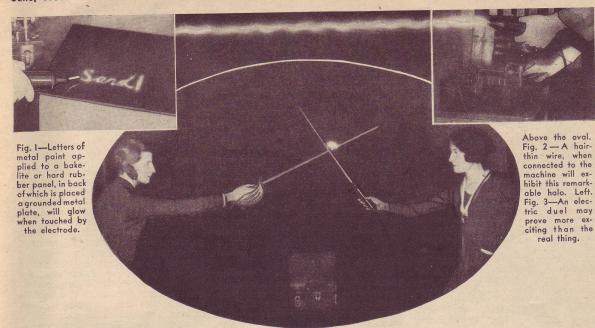
Auto Condensation Treatment Outfits
Auto Condensation Pads
Diathermic Treatment Outfits
X-Ray Plates and Equipment
High Frequency Outfits
X-Ray Generators
Thompson-Plaster Electrical Cabinets
Diagnostic Light Regulators
Portable Combination Outfits
Cautery Transformers
Cautery Equipment
Therapeutic Lamps
Head Lamps
Dental High Frequency Outfits
Dental Wall Plates

Ask your nearest dealer. If he will not supply you, send your order direct to us.







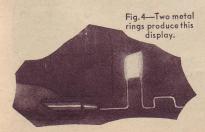


Fun With a Violet Ray Machine

The Old Fashioned High Frequency Machine Stored Away in Your Attic Will Provide an Endless Source of Merriment Through These Spectacular Demonstrations

ANY people have a violet ray machine lying around. They do not realize that they can perform a number of striking and very interesting experiments with it. Several attractive demonstrations which can very well be used for impromptu parlor and lodge entertainments are here de-

scribed. The average violet ray machine operates on what is known as the Oudin high frequency arrangement. The hookup includes an interrupter comprising a magnet coil surrounding an iron wire core which periodically attracts a vibra-tor spring. The 110-volt alternating or di-rect current thus interrupted through a pair of silver or tungsten contacts on the interrupter spring and screw respectively also passes through the primary coil of the Oudin high frequency transformer. A high frequency current is set up in the Oudin primary, due to the action of the high voltage condenser. This high frequency current in the Oudin primary induces a current of much higher voltage and similar frequency in the secondary coil of the Oudin transformer.



By Thomas Malloy

The high voltage, high frequency current in the secondary winding manifests itself in a spark discharge.

The average small size violet ray ma-The average small size violet ray machine yields a spark about one inch long when a piece of wire is inserted in the socket in which the glass vacuum electrode is ordinarily placed.

The production of letters of fire as illustrated in Fig. 1 is a very beautiful



Fig. 5—The circuit is from the high voltage terminal to a nail in the subject's mouth. The high frequency current travels through his body and jumps to the lamp filament. Thence to the filament of the second lamp, to the hand of the individual holding it and to the ground through the wire.

demonstration. This display is of unusual interest as it was one of the early experiments conducted by Nikola Tesla nearly 40 years ago. The characters nearly 40 years ago. The characters and even complete sentences may be formed of wire, metal foil or gold or aluminum paint on the surface of a piece of bakelite or hard rubber about 3/16 of an inch thick. A metal plate somewhat smaller than the panel is placed behind it and connected to a ground such as a water or steam nine. ground such as a water or steam pipe. A ground connection should be used because a more powerful spark discharge is obtained.

Hair-thin insulated wires when connected directly to the high voltage terminal will exhibit a most colorful glow. If you wish, you can shape the wire to interesting forms. Fig. 2 will give you an idea of the effects which can be achieved.

If you are a fairly good showman, a great deal of fun can be evolved before an (Continued on page 164)



Fun with a Violet Ray Machine

(Continued from page 139)

audience by inviting one of the crowd to fight a duel with you as shown in Fig. 3. If you wish, the high frequency current can be taken through your body. The spark will jump from the metal rod held in your hand to your opponent's foil. With a more powerful apparatus than the small hand type, the effect is more startling both to the audience and the would-be duelist.

You will be surprised, no doubt, by the results obtained even with the one-inch spark apparatus. The average person is surely not accustomed to having sparks play about his body and the writer has seen many otherwise phlegmatic men become frightened when introduced to electrical spark phenomena that threaten to get on such close relations as jumping to their skin or even to a sword held in their hands.

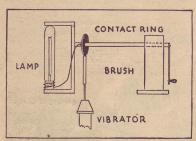


Fig. 8—An easily made hand rotator, to be used as explained in the text.

A very pretty experiment is that illustrated in Fig. 4 which calls for the use of two wire circles. The smaller ring is placed either within the larger one or to one side of it. One ring is connected to the vibrator and the other is grounded. When so arranged a cone of sparks is produced between the two. Those having the use of one of the larger violet ray machines will obtain a more spectacular effect as the rings can be separated farther.

Using either incandescent lamps, even those with broken filaments will do, or the glass vacuum electrodes supplied with violet ray apparatus, many beautiful and entertaining exhibitions may be successfully completed. With the smallest violet ray machines, one of the first experiments you can make is that illustrated in Figure 5. As can be seen, the showman holds the electrode of the high frequency machine close to a nail which protrudes from his mouth. In one hand he holds a lamp by the round end. A second person grasps another lamp similarly so that the metal bases of the two bulbs make contact. This individual also holds a wire which is connected to the ground. The high voltage discharge passing through the two bodies will cause the lamps, through which it also flows, to glow with a most weird, bluish-white light.

Three ways in which to light an ordinary incandescant lamp are shown in

Three ways in which to light an ordinary incandescant lamp are shown in Figure 7. The topmost lamp is illuminated by allowing the spark to jump from the charged wire electrode to the

metal base of the bulb. The lamp in the center is held in the hand and the spark jumps to the metal base. A stronger illumination is obtained from the bottom bulb by holding the metal base firmly against the electrode.

For a novel and brilliant experiment you can hold either a lamp or vacuum electrode in your hand and approach it to the surface of a glass of water (see Figure 6). The liquid may be colored by dyes or other means. A pretty effect is obtained when the glowing lamp or tube is immersed in the water. The ground connection may be made to the water itself, but placing the glass on a grounded metal plate works very well indeed

Some unusual effects can be worked out by arranging one or more lamps or vacuum electrodes on a revolving disc. A fan motor which is probably gathering dust in your attic just now may be put to very useful service for this experiment. You will be agreeably surprised at the many varied patterns that will be produced by changing the frequency of the current in the Oudin coil. This is done by adjusting the vibrator screw. You can also vary the speed of the motor. For best results variable resistance should be connected in series with the motor. A hand rotator which you can very easily make yourself can be used as illustrated in Fig. 8.

Most startling and impressive is the situation that you can produce by showing your friends that you have electric hands. Suppose that when persons attempted to shake hands with you, a

WIRE FOIL WIRE

Fig. 9—How to connect several lamps for high frequency experiments.

spark jumped unexpectedly to their fingertips giving them a mild shock! You can stage this as a little surprise for some of your good friends. The high frequency apparatus can be placed in a closet or in another room if necessary so that no noise will be heard to arouse suspicion. Then by connecting the coil to a piece of wire netting or fly screen placed under the rug upon which you are to stand, you are about ready for this performance.

for this performance.

A phoney "electric chair" always provides a lot of excitement and plenty of fun. The apparatus can be used for platform lectures and also, "shush"! What a royal "goat" this will make for fraternity initiations. Having actually been stung by one of these "electric chairs," the writer has sworn off joining any more benevolent organizations, unless he can personally inspect the

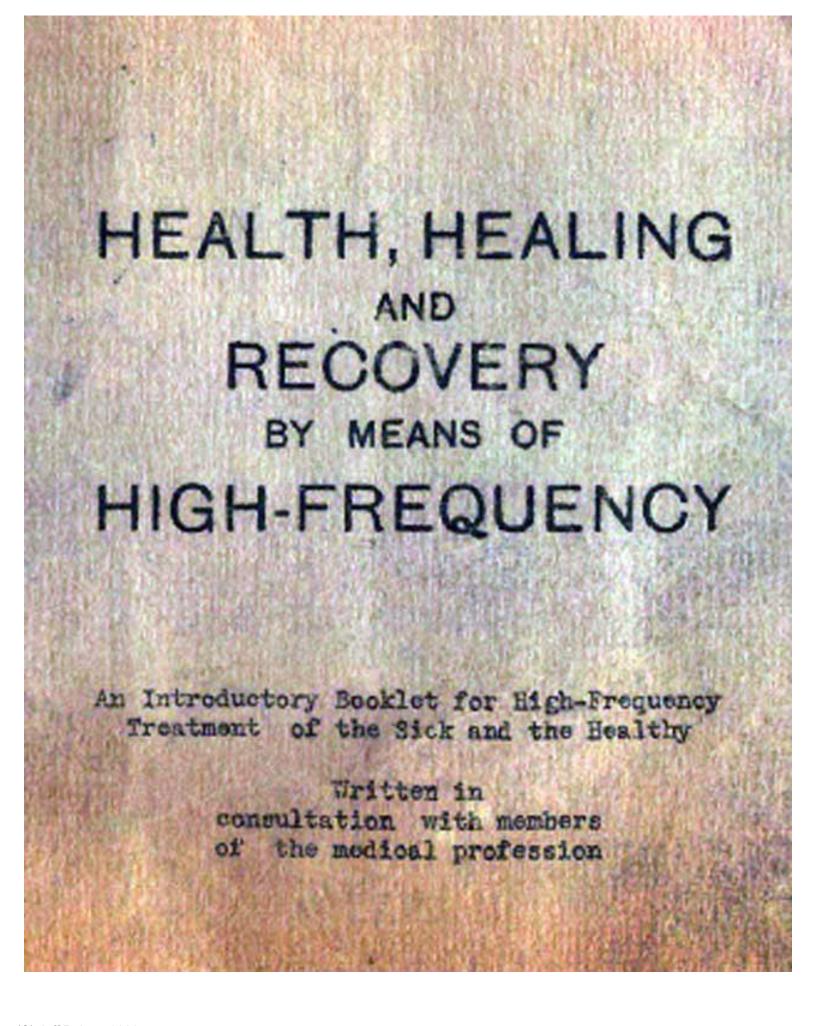
initiation room. Even then he may be sadly fooled for the chief of the degree team may bring the violet ray apparatus along in his pocket.

Surprising as it may seem the smallest violet ray machine will produce a

Surprising as it may seem the small-est violet ray machine will produce a world of fun for parties, bazaars and other entertainments if a wire from the apparatus is joined to a piece of wire screen placed under a thin cloth cover in the seat of a chair. You will get many a good laugh watching the expressions, indignant and otherwise, on the faces of those who accept the challenge to sit in the chair. Not many will remain seated long, for the first spark usually is the stimulus for a wild yell and a meek admission that the device is too much for the daredevil. The larger high frequency coils, yielding a two to four inch spark will of course give much more spectacular and interesting results. A word of caution at this point—do not place your hand or any other part of your body in contact with grounded metal such as a radiator or sink and then extend your hand towards the charged wire of the high frequency apparatus. This usually gives an unpleasant shock.

Illuminated letters—quite large in size—which will serve nicely to introduce your act, may be made by connecting a number of vacuum electrodes or incandescant lamps, preferably those of the straight tubular type in series as diagrammed in Figure 9. Where it is necessary to make a connection to the free end of the lamp, a piece of tin or copper foil may be wrapped around the glass and bare wire fastened around it.





Some of many TESTIMONIALS

received from clients are published in the following.

Originals will be produced on request.

30 Tintern Road, Ashfield. 18th August, 1941.

Mr. Julius Platus, 349 Livingstone Road, Marrickville.

Dear Mr. Platus,

I feel it my duty to write to you to say that in using the High Frequency apparatus we had bought from you I myself as well as my family have obtained the most remarkable success in the treatment of various ailments and diseases such as Rheumatism, Catarrhs, Sleeplessness etc.

After two years during which I have used the apparatus I am now convinced that every family should possess such a machine for their benefit.

Thus having used the apparatus with complete success in many cases of illness I cannot but express my appreciation and gratefulness by recommending it to all our relatives and friends who I trust will find it as satisfactory as I did.

I shall always be thankful for your suggestion to have this apparatus at home and I hope you will be able to supply many sufferers with it for their benefit.

Yours sincerely, (Sgd.) J. Wrobel

85 Spencer Road, Cremorne. 30/9/41.

Dear Mr. Platus,

"..... how I am getting on with your Violet Ray Apparatus. It is certainly a great boon to me and others. My Dermatitis is improving and my local Dr. says it's a splendid thing for anyone to have, who like myself cannot go out much. Then again you may remember Miss Hutton; well, I am treating her for Neuritis of ankles and neck. She is greatly pleased at results. Mrs. Philpott whom I treated after a treble break of ankle also tells me her Dr. at N.S. Hospital remarked how much better she had got on than most such cases. She told him of my treatment and he was amazed. Of course I could do nothing for her for 3 months until the plaster came off. Then she managed to hobble along here and yesterday and Sunday her daughter (who is in the Air Force) a girl of 19 got writer's cramp from her studies at Morse Code etc. She has had 2 treatments and it's keeping her. So in the whole I think it is a real necessity for many ills."

(Sgd.) Mrs. A.C. Shaw

By the way I never charge for treatments and hope when

our boys return from the front to treat any of them that

need it.

7a Garfield St., Pive Dock 11th Oct. 1941.

Dear Mr. Platus,

It gives me much pleasure to inform you that the use of the "High Frequency Violet Ray" apparatus you supplied me with about two years ago has proved very beneficial to my health in general.

As I told you at the time my hearing was affected but now is almost normal. I also use the apparatus for indigestion & rheumatic pains like sciation etc. but most of all is the improvement to my nervous system, I now enjoy a good night's sleep. I

Yours faithfully, (Sgd.) K.C. Knispel

> Nov. 2nd 201 Russel St., Toowoomba.

To Mr. Platus,

Dear Sir,

I was over at Mr. Baltzer's place one night last week, & he showed me your Violet Ray machine, which has almost cured Mrs. Baltzer who had Rheumatics in her ankle, I would very much like to buy one of those machines as I have Arthritis in my hands, but I am ...

> Yours faithfully, (Sgd.) Mrs. P. Muller

> > Anada Flats, Elanora P. 0 Palm Beach. Jan. 1, 1943.

Mr. J. Platus,

Dear Sir,

Machine. It is not myself that it is required for, it is for Mrs. Kochler, her blood pressure is at times very high, and about 4 weeks ago she lost the sight in her right eye, the specialist reports a clot of blood in the veins behind the eye itself. The Specialist and Dr. that attended her did not give much hope of a recovery of much sight if any. As we have a home here where we are living at present also another home

on the Farm at Yamsien via Dally, in this place we have the City Electric Light, on the Farm we have no electric light, so is the Violet Ray plant convertible from Electric Current to Battery Current?

Mrs. Koehler and I examined your Violet Ray
Machine when on a visit to Mr. R. Schurman and were
satisfied as to its efficiency. And am quite satisfied as to all that is claimed for your Plant. And
if your Plant can be converted from Electric Current to
Battery Current I am prepared to purchase. If that
suits you, you could come here from Brisbane in the
early train, co-ordinated ticket from"

Trusting to hear from you,

I remain,

Yours faithfully, (Sgd.) W. Koehler

Mr. Platus,

"Orchardleigh", Nelson Road, Yennora, via Fairfield.

Dear Sir,

Mr. Majan, of Dundas, has given me your address, and he advised me to write to you, with reference to certain Electrical Appliances, similar to those he has himself, my wife has suffered for a long time with Rheumathoid Arthritis. Mr. Majan thinks the machine might prove a success in curing or at least in relieving the complaint.

Could you arrange for a demonstration, with a view to my purchasing. If so, please let me know at your carliest convenience.

> I remain, Yours respectfully, (Sgd.) H.E. Daniel.

On 12th January, 1943 Mr. Daniel wrote the following letter after having purchased the apparatus:

have given Mrs. Daniel a lot of relief so far, and we are hoping for further good results in the future.

I remain,

Yours respectfully, (Sgd)H.E. Daniel

Ruthwen Street, Toowoomba, Fob. 16th, 1943.

Dear Mr. Platus.

Apparatus for the past twelve months and I can not praise it enough. Previous to using your apparatus my wife and I tried all cures for Arthritis and Rheumatism but with no success, and much loss of rest and sleep. Then I bought one of your famous sets and we got almost instant relief and continue to get good results. I've recommended it to all my friends and you can use this letter as a testimonial if you wish.

Yours faithfully, (Sgd.) H. Andronicos

> 82 Dunellan St., Greenslopes, 19-2-43.

Mr. Platus,

I wish to thank you for the benefit I have received since using your apparatus.

I have used it for the past eight months and have had more benefit from it, than years of Dr's treatment for neuritis in my hands and arms. We have also found the apparatus very good for various other complaints in the family.
Yours sincerely,
(Sgd.) Mrs. W. Cooper

St. Ruth via Dalby, Feb. 20th

Mr. Platus.

Dear Sir,

I am writing to you re Ultra Violet Ray machine purchased from you some time ago. All I can say is this. The machine is as good and better than you said it was. My wife swears by it and said it would be the last thing she would part with. Work now is no trouble to her. I myself suffered with bleeding piles, used the machine three times and haven't had them since. I had a servant girl who suffered from nose bleeding used the machine on her three times and the next day she said she could blow her nose without making it bleed. Hoping there are more sufferers about that will hear about this machine.

I remin,

Yours truly, (Sgd.) H.R. Schurman

N.B. It was the best days work ever I done when I purchased that machine.

Mr. J. Platus, SYDNEY. Box 75, P.O. Toowoomba. 20th February, 1943.

Dear Mr. Platus.

Just a few lines to let you know that it is fifteen months since I purchased the Violet Ray apparatus, and I find it very beneficial indeed. When I think four years ago the Doctors would not allow me to chop wood or push a lawn mower climb hills or stairs on account of Heart trouble (Angina) now I am pleased to say I am able to do the lot. I was also a great sufferer with Lumbago, having to have Morphia injections as it was so acute. Now I treat the Lumbar region a couple of times a week and I am glad to say I went through the last winter without the least sign of an attack.

I have also treated an old gentleman eightythree years of age for badly wrenched muscles in his shoulder, the result was wonderful, he could not raise his arm and he was cured in six treatments.

I also treated a returned soldier who had trench feet badly swollen and whom the doctors had in bod for three weeks after eight treatments he was able to get in his car and do a five hundred mile trip on his business as a traveller. I have also seen the machine used on rheumatic and arthritis cases with wonderful results. I have no hesitation in recommending it to anyone I would not be without it.

> Yours faithfully, (Sgd.) J.P. Hutchison, 99a Bridge st. Toowoomba Q.

> > 10. Mary St. Toowoomba, Qsld. 20/2/43.

Mr. J. Platus, 349 Livingstone Rd., Marrickville.

Dear Mr. Platus,

Your Electro-Medical-Apparatus done great wonders in curing my wifes Rheumatism. I myself suffered greatly with Sciatica and am now cured by using your apparatus.

I can honestly say that we would not be without one now after receiving such great benefit by the use of your apparatus.

You are at liberty to make full use of this

statement.

With kindest regards from us all,
Yours faithfully,
(Sgd.) M. Baltzer

Mr. J. Platus, 349 Livingstone Road, Marrickville, Sydney. Palmerin Street, Warwick. 22nd February 1943.

Dear Mr. Platus.

Just a friendly note to let you know how we have been progressing with the apparatus. It is approximately twelve months since we received it and commenced treating Patrick.

We feel he has responded very well, althoug you have explained his case will require many years of treatment. He is much stronger and more robust since the treatment began and we feel sure the apparatus is responsible.

We have also used it for colds and headaches and found it most successful.

Kindest regards and best wishes from Mrs. Skehan and myself.

Yours faithfully, (Sgd.) D.J. Skehan.

7 Russell St., Toowoomba, Q. Feb. 26th 1943.

Mr. J. Platus,

Dear Sir,

It gives me the greatest pleasure to be able to inform you that my little boy Billie who has been suffering from infantile paralysis in the right leg is having beneficial results from the use of the Violet Ray apparatus which we purchased from you about 9 months ago.

My wife who is suffering from heart trouble and nervousness is also having good results from the treatment.

As for myself I feel sensibly better and more energetic than for years, thanks to the apparatus. With kindest regards.

> Yours faithfully, (Sgd.) Wm. Becker

> > No. 17 Clemton Ave., Clemton Park, Earlwood, N.S.W. 7th March, 1943.

To Mr. J. Platus,

Dear Sir,

I have pleasure in writing you upon the results I have had in the use of your Ultra Violet Ray Apparatus. I have used it with great benefit in cases of Influenza, in the relief of severe headaches, Catarrh of the Ears, and also upon my father who is 85 years of age in the case of stomach trouble

and wind rupture, I also used upon a friend of mine who had been under treatment with electric needles upon a sore upon his jaw which was gradually eating his jaw away. I may state that the Electric needles did not do him any good, after using the apparatus upon him for six months it was completely healed. Since using the apparatus my hair has started to grow again upon my head. I have also used it upon my children, my youngest daughter Betty could not attend school owing to lacerated face muscles, her jaw kept dropping out of its socket and she was attending hospital for some time with no results. After a few treatments with the machine the trouble was overcome.

Another case I treated was a Mr. Skelly of Campsie who had been under treatment for three months by both the hospital and his doctor for sciation and neuritis, after two weeks' treatment he was quite well again. I may add that the doctor and hospital treatment had no results upon him, yet after two weeks' treatment with the apparatus he was quite well again.

May I also add that my nerves are now a 100% for I was a bundle of nerves before using the machine. I am writing this to let you know the results of the machine if used according to your Directions and Instructions. I have given treatment to many of my friends with beneficial results; it is a great pity that there is not a Ultra-Violet-Ray in every home, as I feel sure that the Doctors would be saved a great deal of minor attendances, and a great saving of their time for more serious cases as people could give themselves home treatment in cases of Rheumatism etc. You may use this letter in any way you deem fit. I hope I am never without the machine as I know the wonderful work it will do.

I am, Sir, Yours faithfully, (Sgd.) V.E.J. Burfoot.

14 Wyndham St., Toowoomba, March 8th, 1943.

Dear Mr. Platus,

I am just dropping you a line to let you know how pleased I am with your Electro-Medical Apparatus.

My wife has had heart trouble from childhood and right through life the trouble seemed to become worse as time went on. She suffered a lot from heart attacks which naturally left her in a very weak state of health.

After she had treated herself with your apparatus for a few months her heart became almost normal, she can now do her house work and also quite a lot of gardening.

I myself met with an accident to my back many years ago and suffered quite a lot and after treating myself I have received much benefit and can do my daily work also I may make mention of my son who had ear trouble for some time and could not get relief so he decided to treat himself with the Apparatus, after a few treatments he got wonderful relief and to his surprise his hearing was restored and has been good ever since.

I have had two years of practical experience with your apparatus and know of its benefits in the home. I would not like to be without it as it is a friend in need and a friend indeed.

Yours sincerely, (Sgd.) Chas. Weeker.

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The Violet Ray High Frequency Current, or as it is more commonly called, the "Violet Ray," is a new phase of Electricity. It is applied to any part of the human body without pain, muscular contraction or disagreeable sensation of any kind. The electrical oscillations representing the High Frequency Current follow each other with such tremendous rapidity that they outspeed our nervous sensibility; we do not become conscious of their presence; in other words: our nerves are insensitive to the electrical oscillations of the Violet Ray. The Violet Rays are pleasing, and though most stimulating and highly invigorating to the entire system, nerves or muscles, cannot record the presence of their great power.

WHAT VIOLET RAYS DO.

Violet Rays or High Frequency Currents benefit all living matter. Through the glass vacuum applicator light, heat, electric energy and ozone are created. These forces are uniformly potent in relieving and eliminating human ailments. Violet Rays present a remedy upon which we can rely. They are positive and certain in action. They will reach where medicine does not. and often cannot - yet they cause no pain, no disagreeable sensation or discomfort. They furnish a soothing relief. They destroy germs and have a strong power over infection. A Violet Ray treatment is the surest method of relieving pain. Applied to that part of the body where the pain is severest, the rays and High Frequency electrical discharge penetrate every cell, tissue and organ and tranquilize and soothe. They build up the forces of nutrition and general health. Violet Rays will stimulate and strengthen the vital organs, develop the body and steady the nerves, spraying thousands of volts of High-Frequency electricity into any weak, sluggish or painful organ or muscle, purifying and causing the flood of warm, rich blood to surge through the treated part.

VIOLET RAYS FOR WELL PROPLE, TOO.

Even if you are at present strong and well in every respect, the use of Violet Rays will be of immense benefit to you. They provide a stimulation to which a healthy body immediately responds. They safeguard you against the coming illness and reduction of vitality.

ON USING AND STARTING THE HIGH-FREQUENCY APPARATUS.

Using the high-frequency apparatus.

As the high-frequency apparatus is not connected to earth, its use is absolutely without danger. Consequently, there need be no anxiety in handling the apparatus for the first self-treatment. Confidence soon follows, and the correct use of the apparatus becomes a matter of course.

Starting the high-frequency apparatus.

High-frequency appliances can be plugged to any lighting installation and can be used with either direct or alternating current. All that is necessary is to see that the apparatus is adapted to the voltage used.

Before starting:

First make sure that the voltage stated on the apparatus agrees with that in use in the house.

Starting the apparatus:

- 1. The electrode to be used at the time is carefully inserted in the handle with a slight turning movement.
- 2. The flex is connected to a plug bracket. Should none be handy, use a screw attachment.
- 3. Take hold of the handle with the left hand and place the electrode firmly upon the part of the body to be treated, or upon some other object, so that in any case the current may be deflected.

4. With the right hand turn the regulating-knob slowly and gradually to the right until violet rays are
visible in the electrode. If stronger current is desired, turn the regulating-knob still farther to the
right. Treatment should always begin with the current
weak, increasing as you go on. In almost all cases it
is not correct to assume that the stronger the apparatus
is adjusted the stronger will be the effectiveness.



5. Each particular treatment must be in accordance with the times of treatment stated in this book. Between the treatments the apparatus must be switched off and allowed to cool down.

After treatment:

- 1. The regulating-knob is turnsed back to the left until it buzzes.
- 2. The flex is pulled out of

the plug bracket.

3. The electrode is taken out and cleansed as directed in the appendix on "Electrodes".

Goneral remarks:

- 1. The apparatus must never be connected to an electric supply of voltage other than that indicated on the apparatus.
- 2. The apparatus must always only be connected when the regulating-knob is turned full round to the left.
- 3. Always avoid any sudden or violent regulation of the apparatus from weak to strong.
- 4. An electrode must be on the apparatus before the current is allowed to run through it, or with the electrode resting on some part of the body or on some other object, so that the current may always have an outlet.
- 5. Take care that the apparatus is not accessible to unauthorised persons not acquainted with the handling of it.

6. If the above directions are exactly carried out every good apparatus can be expected to fulfil continuously the demands placed upon it. It will then have an almost unlimited lifetime, and will always give satisfaction.

Pay special attention to: Switching on: Always slow and gradual. Switching off: Short and sharp.

GENERAL REMARKS ON HIGH-FREQUENCY TREATMENT.

On starting the apparatus, one should not come in contact with electric or telephone wires, or metal and similar objects. Although no consequences can be caused thereby, prickly sparks may possibly flash across now and then, causing alarm or an unpleasant feeling.

Not to be used in damp rooms; remove metal ornaments.

Treatment with the high-frequency apparatus is most successfully applied in well-ventilated rooms. Under no circumstances should the room be very damp or filled with water-vapour (as in bathrooms); see also that the floor is dry. The skin must be rubbed dry before treatment; wet or perspiring places on the skin are not suitable for the treatment. Metal objects, such as rings, chains, earrings, hairpins, are best taken off before treatment.

Increase the current gradually.

Generally it will be found pleasant to begin every treatment with weak current, and only gradually apply the prescribed strength. In this matter, each individual must be guided by his personal stronger or weaker sensation.

If it is desired to apply a particularly weak current, especially in treating the eyes, ears, and nose, one or more fingers should be placed on the neck of the electrode,

to serve as a conductor, so that the current may not work fully.

What must be observed in treating the hair?

Hair-treatment must not be undertaken immediately after washing with alcoholic hair-washes and shampoos, as otherwise the danger might arise of the alcoholic vapours remaining in the hair catching alight.

Note also the remaining instructions.

Many illnesses arise in consequence of an unsuitable mode of life. High-frequency treatment cannot, where that is the case, remove the violation of natural laws. An improvement can therefore never be looked for unless the old habits are given up. Attention must accordingly be paid to the remaining instructions for treatment, and in this way the goal will be reached more quickly and more surely.

INTRODUCTORY REMARKS ON HIGH-FREQUENCY TREATMENT,
for the sick and the healthy.

That surprising successes are obtainable with highfrequency is confirmed by doctors who make a serious use of high-frequency in large practices. It is of course impossible within the limits of this pamphlet to discuss high-frequency treatment exhaustively and to present a complete exposition of its manifold successes. We must rather confine ourselves to giving here only brief introductory remarks regarding the treatment of diseases and complaints, the course and curing of which can be favourably affected by high-frequency treatment. This pamphlet makes no attempt whatever to play a part which it is not intended to play. We have no intention of taking the place of the professional adviser, the doctor. Go and consult your doctor! He will then take the correct measures for the high-frequency treatment and will supervise the carrying-through of the treatment. Therefore

be prudent and try no tricks! Just as with medicine, high-frequency cannot in all cases be the only means of help. It would be presumptuous to make such an assertion. Anyone, however, who has tested the effect-iveness of the high-frequency treatment, and has become familiar with the apparatus, very quickly discovers the many and varied possibilities of its use. Above all, a strict rule must be made of the punctilious observance of a regular course of treatment, which in any case must be begun at the first signs of illness.

Thus the possession of a high-frequency apparatus will bring relief, healing and recovery, and be a cause of rejoicing. The outlay will not have been made at the instance of some passing advertisement, but the money spent will bear manifold interest in the coinage of health, fresh vigour, and new courage to face life!

DIRECTIONS FOR APPLYING HIGH-FREQUENCY TREATMENT.

To put it briefly, the nature of high-frequency treatment consists, firstly, in the production of heat by the current, especially when the electrode is placed upon the body; secondly, by means of the sparks which are thrown off when the electrodes are held at a distance from the surface of the body, special psychological curative effects are set up; thirdly, by indirect treatment the high-frequency currents may be directed through a second person to any part of the body desired; fourthly, by means of high-frequency, applying electrodes shaped specially for the purpose, disfigurements on the skin can be removed, and thus destruction of tissue be effected without bleeding; fifthly, the flow of rays by highfrequency currents can be imparted to the whole body by general charging with the metal electrode or the saturator; and, sixthly, when the high-frequency currents pass into the air ozone gas is given off, which can be used for healing purposes by ozone-inhalation through electrodes specially prepared for this purpose. Thus, one after another, six fundamental methods of applying high-frequency treatment have been established.

1. Treatment by contact. (General form of treatment.)

form of radiation, is direct high-frequency treatment, in which the high-frequency current acts from the electrode in close contact with the skin, i.e., by placing the electrode firmly upon the skin and making slow stroking movements with it: (a) in the case of external parts to be treated, directly upon them; or, (b), when internal parts are under treatment, by means of special electrodes. Both in (a) and (b) the high-frequency current is applied directly to the parts under treatment.

(a) External kinds of pains of a general cherac-

- (a) External Treatment. This is applicable for removing all kinds of pains of a general character, neuralgic affections, rheumatism, sciatica, and similar complaints. Also for beauty and general physical culture, for smoothing and revivifying the skin, for the strengthening of muscles and nerves, for attacking indigestion and constipation, and for various abdominal disorders, etc.
- (b) Internal Treatment. This is carried out with special electrodes which can be inserted into the apertures of the body: for nose, ears, anus, vagina, urethra (in the case of the latter only by the doctor). Such treatment has often shewn amazing results. Thus, for example, certain chronic affections of the nose, neck, and throat, and many others are relieved in this way. In most cases of internal treatment, the particular electrode used is previously oiled and then carefully inserted. Then, and not before, the current is turned on and increased gradually. During the insertion no active movement should be made, as such movements might cause the electrode to break, Insertion into the anus is most conveniently made when the patient is lying on his side with knees drawn up and is breathing deeply through the open mouth. The bowel should have been previously emptied, either naturally or by means of an enema.
- 2. Discharge of Electric Aigrettes.
- (a) In loose contact with the skin (short distance away from the skin). Specially

beneficial effects can be obtained by aigrette-discharge, in which the dectrodes are not brought into direct contact with the skin, but are held away from the skin, the distance varying according to personal sensitiveness, and the current is emitted in the form of sparks. In this way, we receive, in especial, a very beneficial skin-stimulation, and the increased accession of blood in the skin thus achieved is soon evident by its favourable influence on the underlying organs and on the local blood-circulation.

(b) Through interposed cloth (folded cloth, about \(\frac{1}{8} \) in. thick). In order to retain more definitely the advantageous heating effect on the skin, the discharge can be passed through a dry linen (or, preferably, woollen) cloth folded two or three times. One special advantage of this method of treatment is that a still stronger skin-stimulation is brought about, with corresponding good effect upon the more deeply underlying organs.

It is not advisable, however, to carry out the treatment through the clothing, as seams, etc., add to the thickness and thus the length of the sparks is varied. Metal objects, such as buttons, buckles, etc., might also concentrate the sparking upon themselves and then cause severe transmission to the skin.

3. Indirect treatment through a second person.

The procedure with this treatment is as follows: The person under treatment takes the metal electrode or the saturator in his hand, and the current is then switched on. A second person now carries on the treatment by massaging, or stroking lightly with the hands, the parts needing treatment. The high-frequency force is conducted to and in the body of the patient everywhere where the operator places his hands.

It is important that the patient undergoing this procedure should, as much as possible, be safeguarded from conducting off the current, i.e., insulated. This can best be done, for example, by lying on a sofa or bed. In such massaging carried out by a second person, the high-frequency currents are conducted through the hands of the masseur, and then pass off through his body to earth. At the end of the treatment, the current must first be turned off before the attendant removes his finger-tips from the patient's skin.

Although indirect treatment through a second person has proved itself to be an excellent method of treating various illnesses, it is only to be used for certain definite cases. Some physicians who have often applied this treatment have nevertheless found that some patients feel themselves weakened by it. Nor is it to be used for patients with contagious disease. The latter will find the indirect self-treatment described under no. 5, the so-called "charging" (i.e., an indirect self-treatment without second person), an equally effective method of treatment.

4. Fulguration.

Fulguration is the sudden, sharp discharge of the high-frequency current upon the spot under treatment through the cautery electrode, into the tip of which a small wire is fused. The discharge has tissue-destroying effects, resulting in the removal of disfigurements on the skin, such as pimples, blackheads, warts, freckles, corns, proud flesh, etc.

The cautery electrode has a detachable glass tube over the small wire. During the treatment this tube is so adjusted that the fine point of the wire is withdrawn a small fraction of an inch behind the upper aperture of the sheath. The glass sheath is placed upon the spot under treatment and then the current is turned on. The current is first put on so gently that a very weak but uniform stream of sparks is applied to the spot treated.

The bad spot which it is desired to remove is now treated for a short time until it turns whitish, a sign that the skin-tissue is destroyed. If there are bigger formations, then various spots in them are treated. With fulguration treatment, no bleeding or wounds take place, as in other methods, also the forming of scars is avoided.

5. Indirect self-treatment (Charging).

Indirect treatment is certainly the most successful and effective means of raising the general state of health. It stimulates the cells and the circulation of the humours into more vigorous activity. It causes a general re-energising, strengthening and revival of the cell-tissue, as well as improving the blood and facilitating the circulation of the blood.

The body can also be charged very simply with highfrequency current by holding the metal electrode or the
saturator alternately in the one hand and then in the
other and turning on the current, increasing it for about
5 minutes. During this treatment sit on a wooden chair
with the feet on a wooden stool, so that the high-frequency currents may not immediately run off to earth.
In this way the whole body is alternately charged and
uncharged, thus imparting a feeling of vigour, strength
and comfort. Charging is used in all cases of nervous
affections, debility or exhaustion, and also when fagged
out, run down, or suffering from insomnia, etc.

6. Ozone-Inhalation.

Ozone-inhalation is carried out with a special electrode, the ozone-inhaler. Inhalation of ozone has produced favourable results and cures in cases of incipient lung-trouble, neck complaints, bronchial catarrh, asthma, and other affections.

There are several kinds of inhalation electrodes. They are divided on the principle of evaporation or, alternatively, spraying. To use the inhaler, pour in the inhalation-oil, insert the electrode into the handle and take hold of the middle of the inhaler with the left hand. With the right hand, pump air through the ezone and oil chamber of the inhaler by means of slow and uniform pressure of the rubber-bellow. The mixture of oil-ozone being pumped out through the mouthpiece of the electrode is now slowly and deeply breathed in. Begin the treatment with increasing current and taking from 5 to 8 breaths, adding to the number gradually. For inhaling it is best to use

calm inhaling bring about good effects. The mouthpiece, however, should not be held too near to the aperture of the nose or mouth, but above all is not to be inserted in it. Mixing of the ozone with the above-mentioned evaporated or sprayed oils is necessary, because pure ozone has a corrosive effect upon the mucous membranes, while, in combination with the inhalation-oil, the mixture has a relieving and soothing effect.

DISEASES AND THEIR TREATMENT.

1. Diseases of the organs of movement.

Among diseases of the organs of movement, changes in muscles and joints are peculiarly susceptible to high-frequency treatment; diseases of the bony framework of the body are not all suitable for self-treatment with high-frequency.

RICKETS. This disease is chiefly caused by heredity, malnutrition, and the child's unsuitable conditions of life. The treatment of a disease like this must first deal with the removal of its unsuitable circumstances. The first things to be provided are: a good deal of vegetables and fruit, especially in uncooked form; not much meat and eggs; plenty of air and sun baths. The high-frequency treatment consists of radiation movements over the whole body with the surface-electrode (UE 1, UE 2 or UE 4) twice daily, for six minutes each time, the movements to be made from the neck and from the hands downwards to the heart, and from the feet upwards to the heart. At first weak current is to be used, and medium strength after a week's treatment.

ACUTE ARTICULAR RHEUMATISM, a very painful, feverish disease, passes from one joint to another, first attacking the limbs. In this disease the doctor must be consulted. Food to be dieted, little liquid to be taken. High-frequency treatment as follows: first, careful radiation

of the painful places with the skin-surface electrode (UE 1, UE 2) once or twice daily for seven minutes, using medium current. Later, more energetic treatment with the condenser or the nerve-brush. Occasional morning charging of the whole body.

ACUTE ARTHRITIS arises generally through excitation of tuberculosis, gonorrhoea, syphilis, or it can arise from gout (see later), or as a consequence of blood-poisoning. In addition to the treatment of the original disease prescribed by the doctor, radiate the inflamed joint and the part round it once or twice daily for seven minutes with the surface electrode (UE 1, UE 2), using first weak current and later medium strength. When the symptoms die away, for the second treatment use a massage roller.

CHRONIC ARTICULAR RHEUMATISM can occur in conjunction with acute articular rheumatism, or also be due to catching cold or getting wet through. Treat the joints attacked twice daily for seven minutes with the electrode UE 1 or UE 2, using medium current. In addition, treat the immediate neighbourhood of the joints once daily for five minutes with the skin electrode. Help the return to full mobility by frequent movements, taking care not to put too great a demand upon the joints.

OTHER CHRONIC FORMS OF ARTHRITIS go with stronger discharges of liquid into the cotyles. In their further course, movements are more severely restricted. The cause often lies in a push, fall, or overexertion, or is due to infection. The high-frequency treatment is the same as for chronic articular rheumatism.

BRUISES are harmless injuries which lead to local blood haemorrhage, and are painful when pressed.

Apply damp compresses. For the first few days treat the discoloured or swellen parts of the skin twice

daily for 4 - 5 minutes with the electrode UE 2 or UE 1, with medium current; later, massage-roller.

sprains. First set the injured part immediately in a comfortable position and bind a wet cloth firmly round the joint. The high-frequency treatment quickens recevery and speedily alleviates the pain. Radiate carefully the painful parts twice daily for 4 - 5 minutes with the electrode UE 2 or UE 1, medium current. Should there be a suspicion that a tendon is torn or even a bone broken, the doctor must be sent for at once.

of the joint. Appropriate setting of the bone must be immediately undertaken. After this, the joint must be made comfortable with a damp bandage for a few days; then begin to treat the injured joint and the part around it slowly and carefully by light massage with the electrode UE 1 or UE 2 twice daily for 4 - 5 minutes, using medium current.

MYCDYNIA. This may be a matter of diseases of the nervous system, or of the blood vessels, or anemia, etc. The painful part is radiated twice daily for 4 - 6 minutes with the electrode UE 2 & UE 36, and once daily with the massage-roller for about 5 minutes; medium current.

ACUTE MUSCULAR RHEUMATISM arises from similar causes as articular rheumatism and is similarly treated. (electrode UE 2, or UE 1, twice daily for 6 minutes).

LUMBAGO is a form of rheumatism of the loin muscles.
Treat as for rheumatism.

TORTICOLIS is rheumatism of the neck muscles. Treatment as for rheumatism.

CHRONIC MUSCULAR RHEUMATISM is much more obstinate. The pain varies in intensity. Hard nodules, very sensitive to pressure, can often be felt in the muscles.

Particular attention must be paid to these in the high-frequency treatment. Radiate them twice daily for 6 minutes, using the electrode UE 1 or UE 2. In addition devote 4 minutes each time to radiating the surrounding parts; medium current.

MUSCULAR DIASTROPHE can occur as a result of inordinate demand upon a muscle and of clumsy movement. Put on a damp bandage and nurse the muscle. Healing is accelerated by high-frequency treatment, which must be undertaken twice daily for 6 minutes with the electrode UE 1 or UE 2, with medium current. Pass the electrode with light stroking movements over the injured spot for 5 minutes each time.



Massage roller.

MUSCLE OVERSTRAIN, following on physical exertion, is treated before going to bed and on arising for 8 minutes with the massageroller, medium current, as well as with the electrode UE 1 or UE 2 twice daily for 5 - 6 minutes.

UNUSUALLY OBSTINATE
RHEUMATISM, SCIATICA, etc.
are combated still more
energetically with the
electrode UE 2 or UE 1
twice daily for 6 minutes.

2. Diseases of the brain and the nerves.

Of the diseases of the brain, only such are here discussed as lead to a limitation of physical activities. Psychical and mental derangements attack the manifestations of the soul and the understanding, and such sufferers need above all psychical treatment; they require suitable attention and supervision.

leading to a decrease of the total quantity of blood, such as severe loss of blood, etc. The high-frequency treatment consists of radiating the body, in a recumbant position, with the electrode UE 1 and UE 11 for 4 - 5 minutes, once to twice daily, with medium strength, especially the neck and nape, and further the chest and upper part of the back.

citation, such as excitement, or through unpleasant or repulsive impressions. Lay the fainting person down, open close-fitting garments and allow accession of fresh air. Cool brow and temples, and in certain cases the region of the heart also, with cold compresses. Treatment as for anemia.

congestion of the BRAIN is observed in conjunction with inflammatory appearances in the region of the head, such as sneezing or throat catarrh; further, in conjunction with severe mental activity, or excessive physical exertion, and after partaking of coffee or alcohol. Obviously, treatment must presuppose abandonment of the actions causing the trouble. An immediate change is effected by radiation of the spine, abdomen, and thigh with the surface electrode UE 1 and UE 2 for 5 minutes, current at first weak, later medium.

EPILEPSY. By epilepsy is meant an ailment in which sudden, sharp muscular convulsions occur, together with complete loss of consciousness on the part of the patient. In addition to medical treatment, nourishment taken should be unstimulating and sparing in meat, and a good deal of time should be spent in the open air. The high-frequency treatment consists of massage radiation of the body, especially the neighbourhood of the vertebral column and the stomach, with the electrodes UE 1 and UE 2, twice daily for 5 minutes each time, with medium current.

CONVULSIONS. By convulsions we mean the occurrence of epileptic character in infants and small children. Sometimes, only spasms of the glottis and breathing show themselves, the other muscles remaining unaffected. As there is danger of suffocation, the doctor should be called in at once. The high-frequency treatment, however, is to be begun without delay. Place the neck electrode on the region of the larynx and apply weak current for 5 minutes, then for 6 minutes twice daily treat the chest with the electrodes UE 1, UE 2 UE 36, using medium current. Besides this form of the ailment, muscular spasms with loss of consciousness also occur. In this case, treat as for epilepsy when the patient is free of an attack. A third form of the illness attacks hands and also feet. This calls for IMMEDIATE high-frequency treatment. Radiate hands or back of the foot with the electrode UE 1, using weak current. After disappearance of the attack. continue this treatment for some months twice daily. In addition to the high-frequency treatment, see that the children spend ample time in the light, air, and sun. The feeding should consist if possible of mother's milk.

HYSTERIA. The treatment of hysterical subjects must be principally psychological. It demands careful and sympathetic appreciation of the sufferer's mental world. But simultaneous high-frequency treatment can favourably affect the sensory disturbances of the skin and the paralysed or cramp condition of the muscular system. For this, we recommend alternate use of the electrodes UE 1, UE 2, or massage roller, with weak current at first, later with medium strength; 4 minutes, twice daily. Treatment should be quite general at least once daily, the remaining time being devoted to local treatment of the disturbed centres.

NEURASTHENIA, NERVE WEAKNESS, NERVOUSNESS. These are among the most widespread complaints in these hustling and tremendously nerve-racking times. Among the

causes are such as physical and mental over-exertion, protracted strain on the emotional life, and an unsuitable mode of life. Before treatment is begun, a thorough examination of the nervous system must be made. so as to prevent the occurrence of any organic change. The high-frequency treatment has a helpful effect. Treat the whole body twice daily; the first time apply the electrode UE 1 or UE 2, the second time the massageroller. Radiate for 6 minutes from hands, neck, and back of the head over the whole skin, front and back, down to about the navel; along with this, radiate for 2 minutes from the feet upwards to the navel, so that each period of treatment lasts in all 8 minutes. During the first fow days use weak current, and only after that medium strength. In the colder period of the year, treat again a third time, applying the massage-roller. From time to time, apply indirect treatment also with the metal electrode, grasping the latter alternately with the right and the left hand.

INSOMNIA. The cultivation of sleep is an important measure for the maintenance or improvement of health. For insomnia do not use soporifies. Before retiring, a light meal, a little walk, a lukewarm bath or complete wash, but, above all, high-frequency with the electrodes UE 1, UE 11 (indirect treatment) or UE 2, using medium current. Radiate twice daily, for 5 - 6 minutes. Calm, deep sleep will soon be again experienced. Avoid stimulants, such as coffee, smoking etc.

HEADACHE AND DIZZINESS. Before beginning treatment ascertain the causes, as otherwise, permanent release from this tiresome and hampering complaint can hardly be expected. DIZZINESS is often the forerunner of serious disorders, and when it persists obstinately should lead to early consultation with the doctor. Treat the brow and temples with the electrode UE 1, the head with the comb electrode, the nape of the neck with the neck-electrode or massage-roller. Treat twice daily during five minutes. Use also inhalation electrode. Should the

pains proceed from the stomach, then radiate the stomach with the electrode UE 1 for 5 - 6 minutes, with weak, and later medium, current. The second time treat in the evening and massage with the broad skin electrode the whole body, both upper and lower parts, working always toward the heart; treat for 6 minutes, using medium current. The drainage treatment is also advantageous in these cases.

NERVOUS HEADACHE (MIGRAINE). In contrast to ordinary headache, this takes the form of an attack, and is often accompanied by vomiting. The high-frequency treatment must be carried out regularly every day, and further is of great service during the attack, when the neck should be treated for 5 minutes with the neck electrode and the chest for the same period with the electrode UE 1 or UE 2, using weak current. Daily treatment is to be undertaken morning and evening, applying medium strength current; treat, each for 5 minutes each time, upper and lower parts of the body with the electrode UE 1 or UE 2, making strong strokes towards the heart.

NEURALGIA consists in very violent painful attacks confined to the parts around one or a few nerves. Radiate, in addition to the seat of the pain brow and temples with the electrode UE 1 or UE 2, the neck region and maps with the neck electrode, head and occipitus with the comb electrode; current weak to medium, duration 5 minutes, twice daily.

FACE-ACHE arises often with gout-seed, or in consequence of lead poisoning, etc. Treatment twice daily with the electrode UE 1 or UE 2; for the first 3 days with weak, and then with medium, current; five minutes each time. Continue the treatment after the disappearance of the pain for a further 14 days, and, as a precaution, repeat frequently. PAINS IN THE CHEST. Chest pains may be not only a consequence of diseases of the pleura, lungs, and heart, but may also arise as an independent form of neuralgia. Should the trouble prove obstinate, confirmation must be sought from a doctor. Radiation of the painful part with the surface or condenser electrode (UEI or UE 2) twice daily for 5 minutes, with medium current.

very troublesome complaint. Pain often increases during attacks to an almost unbearable intensity, and spreads usually downwards from the seat. Radiate twice daily for 5 minutes with the condenser (UE 2) or with UE 1 along the painful nerve from below upward, using, first medium, and then strong current; after a few days, current as strong as possible.

PARALYSIS. In this affliction, high-frequency treatment is applied purely locally and has proved very effective. Except face-paralysis, all forms of paralysis are treated similarly. Apply medium current, and after becoming accustomed to it, allow considerable sparking. Apply twice daily the surface (UE 1) or condenser electrode (UE 2), and on a third occasion each day the massage-roller. Alternately use UE 36. Preferably treat only twice daily, for not more than seven minutes.

PARALYSIS OF FACE-MUSCLES. Symptoms of paralysis on a portion of the face muscles are not infrequent. Most frequently they are caused by catching cold, or by a draught. Treatment for 5 minutes, with the electrode UE 1 or UE 2; medium current.

SPASMS. These are involuntary movements of the muscles. There are two kinds of spasms: those in which there are twitchings, and those in which the muscle remains stiff for some time in a state of tension. Use the electrode UE 1 or UE 2 for 5 minutes twice daily.

CRAMP OF THE FACE-MUSCLES occurs generally as an attack in the form of sudden, sharp twitchings. When free of attack, the freedom of movement of the muscles is completely normal. Radiate the side affected with the electrode UE 1 or UE 2 twice daily for 5 minutes, with medium current.

LOCK-JAW is usually the result of cramp of the masticatory muscles. During the attack, radiate with the electrode UE 1, UE 56 or UE 60 the part of the cheek near the ear, using strong current; during 4 - 5 minutes.

HICCOUGH. This is the consequence of a diphragmatic spasm. During the attack radiate with the electrode UE 1 or UE 2 during 5 - 6 minutes, with medium current. Treat the lower part of the chest. This treatment is also to be undertaken for spasmodic yawning, laughing, weeping, and screaming.

REMAINING SPASMODIC AFFECTIONS are similarly treated by radiation with the surface (UE 1) or condenser electrode (UE 2) or with UE 11, in close contact with the skin, applying medium current for 6 - 7 minutes, irrespective of the duration of the spasm.

3. Diseases of the digestive organs.

The correct working of the digestive processes is essential for the maintenance of health. Ill-health in one of the digestive organs is never long restricted to itself. Whenever any derangement exists in the disintegration, utilisation, or movement of the food consumed, it soon affects the whole body.

Disorders inside the oral cavity.

MYCODERMITIS. To cleanse the mucous membrane and remove the coating rinse the mouth hourly with lukewarm water. After rinsing, treatment with electrodes UEL, UE 4, UE 23 alternately, twice daily for 3 - 4 minutes.

THRUSH, confined almost entirely to infants, consists of grass-shaped vesicles of fungi on the lining membrane of the mouth. Once a day for 3 minutes external pressure with the insulated neck electrode on the floor of the mouth, with very weak current. (UE 1 or UE 2 twice daily for 2 - 3 minutes).

GLOSSITIS. The tongue swells up, is painful, the general health is upset, and usually there is feverishness. Treat with the electrode UE 23 twice daily for 2 - 3 minutes with very weak current. In addition. you may use once a day for 4 minutes the insulated neck electrode externally against the floor of the mouth, using medium current.



High-frequency in child-nursing. Treatment of the spine with is, of course, a matter the spinal electrode.

MUMFS. This inflammation of the parotid gland, popularly described under the most varied names. is particularly rife in damp, cool weather, especially in Spring and Autumn. Treat for 6 - 7 minutes twice daily with the electrode UE 1 or UE 2, and UE 4 alternately. Current weak to medium.

TEETH TROUBLE. The treatment of teeth troubles

for the specialist, and the treatment necessary should never be put off. In the case of pain arising suddenly, we possess an excellent means of alleviation in high-frequency treatment.

Radiate the painful spot externally with the surface electrode UE 1 for 5 - 6 minutes, with weak current. Internally use the electrode UE 54, 55, 56, 57, 58, 59 or 60 twice daily for 2 minutes. For inflammation of the gums or the alveolar membrane use the insulated tooth-gum electrode.

Before treatment, clean teeth with toothpaste or chalk precipitate and rinse out the mouth thoroughly.

Disorders of the neck and throat.

In the back of the oral cavity and in the pharynx there lie organs consisting principally of ganglion-like tissue. As the "lymphatic circle" they cover the whole inner surface of the throat.

THROAT CATARRH. The acute form is distinguished from the chronic by the greater redness, swelling, and secretion of the mucous lining. Before treatment with high-frequency, gargle with lukewarm water to which a pinch of salt per glass has been added. Treat 2 or 3 times daily according to the severity of the symptoms. Apply externally the electrode UE 1 or UE 4 for 4 minutes daily and use internally the electrode UE 23. Medium current.

TONSILITIS. The simplest form of tonsilitis is the catarrhal, which is similar in character to throat catarrh and is to be treated like the latter. More serious is the course of purulent tonsilitis, and the doctor should be called in. High-frequency treatment serves to relieve the pain during the violent process of the inflammation and to expedite the complete cure. Radiate from the outside, floor of mouth and neck with the electrode UE 1 and UE 4 alternately, and use internally the electrode UE 23, twice daily for 4 - 5 minutes, with very weak current.

OITRE. Treat the sick part with the electrode UE 1 or UE 2; indirect massage of the neck. Use also the electrode UE 4 externally, twice daily for 6 minutes.

Stomach Disorders.

In cases of disorders of the functions of the stomach, it is essential to pay special attention to diet. It is impossible to give here advice of general applicability. A sick stomach must be given the utmost possible care. Take very little liquid; avoid cold and alcoholic beverages, tobacco, stimulants such as coffee, pepper, etc. Unstimulating mixed fare, vegetables and fruit, are good.

ACUTE STOMACH CATARRH. The chief symptoms of acute stomach catarrh are nausea and loss of appetite, often accompanied by vomiting. The high-frequency treatment must be undertaken in conjunction with dieting.

Radiate twice daily for 6 minutes the region of the stomach the electrode UE 1 or UE 2 with cap, turning on first weak current and gradually increasing to medium strength, and afterwards treat for 3 minutes each the back and abdomen. (UE 33).

chronic STOMACH CATARRH. Chronic stomach catarrh develops from the acute form if the latter is neglected, or it arises very gradually as a consequence of frequent use of alcohol, tobacco, etc. Treatment consists of strict observance of the above-mentioned general advice on diet. High-frequency treatment as for acute stomach catarrh. STOMACH DEBILITY, a condition in which the stomach is permanently dilated on account of the diminution of the astrictive power of its muscular strata. Radiate with the electrode UE 1 or UE 2 twice daily for 6 minutes, stomach and back alternately.

NERVOUS DEPRESSION OF THE STOMACH. This is generally a form of difficult or retarded digestion. Usually, in addition to the indigestion, there are evidences of participation of the nervous system in the matter, so that nervous disorder may be suspected. Nevertheless, the treatment should be in accordance with the general advice for stomach trouble, and furthermore that given for nerve weakness. Radiate with the electrode UE 1 or UE 2 twice daily for 6 minutes, stomach and back alternately. Continue this for some time.

STOMACH CRAMP takes the form of attacks of stinging, cutting pains in the region of the stomach. The cause can generally be traced to nerve trouble, anemia, or female disorders. On an attack, immediately radiate the stomach region with the electrode UE 1 for 6 minutes, at first with weak current, and after 3 minutes with medium current. Then treat for some time by radiating with the electrode UE 1 or UE 2 twice daily for 6 minutes, stomach and back alternately.

GASTRIC ULCER. In longstanding or difficult cases, the calling in of medical advice should not be put off. In any case, high-frequency treatment is to be recommended in addition to the special stomach treatment ordered. Radiate back and stomach region twice daily for 7 minutes with the electrode UE 1 or UE 2, with cap, using only weak cur, ent.

Intestinal diseases.

Disorders of the intestinal canal are not confined in their effects to the organ affected, but rather, the altered course of the digestive processes caused by intestinal trouble soon becomes evident throughout the whole of the body.

ACUTE INTESTINAL CATARRE. The cause lies mainly in unwholesome constituency of the food consumed. For treatment, we recommend the use of an enema and a period of fasting. Begin immediate high-frequency treatment. If attacks of pain are particularly severe, treat twice a day for 7 minutes, the whole surface of the abdomen with the electrode UE 1 or UE 2. Otherwise treat externally with the electrode UE 1 or UE 2 for 5 - 6 minutes, and internally with the electrode UE 33 for 3 minutes twice daily. Current to be medium strength.

CHRONIC INTESTINAL CATARRH. Chronic intestinal catarrh may remain after acute catarrh has died away,



Treatment of the back.

or it may develop as a result of frequent irritation of the intestinal mucous lining. Regulate mode of life, and diet; in the morning, before a meal, and in the evening after a meal, take a cup of hot peppermint-tea. The high-frequency treatment is to be applied to the abdomen twice a day for 5 - 6 minutes, using externally the electrode UE 1 or UE 2. Internally radiate with the electrode UE 33 for 3 minutes

twice daily, using medium current.

COLIC (abdominal pains occurring in attacks; generally they are particularly sharp in the neighbourhood of the navel). The causes are, on the whole, the same as in acute intestinal catarrh. Treatment by injection of tepid camomile (about 85° Fahr.) by means of the enema, followed immediately by high-frequency treatment. At each attack treat the painful part for about 5 minutes with the massage-roller, with medium current. Then treat for some time with the electrode UE 1 or UE 2, with cap, for 6 - 7 minutes, twice daily.

SUMMER CHOLERA (in children). As a child's body has less capacity for resistance, the causes, which in adults lead to harmless intestinal catarrh, may occasion the severe and serious illness which is termed summer cholera on account of its chief symptoms. Treatment is so difficult and responsible that a doctor should at once be called into consultation. In addition, high-frequency treatment may be applied for its southing effect. Treat the abdomen twice daily for 3 - 4 minutes with the electrode UE 1, using very weak current.

CONSTIPATION. To treat this, it is indispensable to stimulate the functioning of the bowels by a diet abundant in vegetables and fruit. There should be ample physical activity. Treat the abdomen twice daily for 5 - 6 minutes with the electrode UEl or UE 2; at the beginning apply weak current, making it stronger soon after. Furthermore, twice a day insert the well-oiled rectum electrode (UE 33) into the bowel after it has been emptied either naturally or by means of an enema, and allow weak current at first and then medium to work for 3 minutes altogether. The insertion is most conveniently carried out when the patient is lying on his side with knees drawn up and is breathing deeply through the open

mouth.

HARMORRHOIDS. Haemorrhoids are knot-shaped dilatations of the blood-vessels of the bowel and anus. Treatment to be the same as for constipation.

Diseases of the liver and gall-ducts.

Diseases of the liver and gall-bladder are difficult for the layman to diagnose, and require therefore medical advice. Still, as a supplementary measure, high-frequency treatment has invariably answered well. Radiate the region of the stomach and the back twice daily for 5 - 6 minutes with the electrode UE 1 or UE 2, applying medium current.

JAUNDICE. Jaundice may easily be recognised by the discoloration of the white of the eye and the skin. The cause must be looked for in inflammation of the gall-bladder or the intestinal membrane, or may be due to obstruction of the gall-ducts from gall-stones. Use indirect treatment by radiating with the electrode UE 11 as well as with the electrode UE 1 twice daily for 5 - 6 minutes. Medium current.

GALL-STONE COLIC. When gall-stones meet an obstacle on their way through the gall-ducts, violent attacks of pain generally occur. High-frequency treatment affords relief. Radiate with the electrode UE 1 or UE 2, with cap, every painful part on front and back for 5 - 6 minutes. Use at first weak current, and after a few minutes medium strength.

4. Assimilative disorders.

In the assimilative processes. Their treatment must

consequently first of all consist in eliminating disorders in the body.

OBESITY. Obesity may be due to disorders not easily diagnosed. It often arises on account of rich feeding, and specially through taking excessive liquid nourishment along with insufficient physical activity. High-frequency treatment cannot be successful if such a mode of living continues, but in conjunction with a thorough change of manner of life is of great value. Treat twice a day for 6 - 7 minutes with the massage-roller, applying medium to strong current; radiate the abdomen especially. Use the electrode UE 1 or UE 7 for the treatment under the neck. It might also be advisable to sparkradiate the whole body every third day, especially stomach and back with the electrode UE 1. If there is heart weakness, it might also be necessary to radiate the region of the heart once a day with the heart spiral. Occasional charging with the metal electrode.

GOUT. Treatment of gout must likewise be very thorough and cannot be carried out without advice. In very painful attacks, however, high-frequency treatment affords wonderful help. The high-frequency treatment is applied to the joint and the parts around. Radiate the skin strongly with the electrode UE 1 or UE 2 for about 5 - 6 minutes daily; the second time use the electrode UDE 102, also for 5 - 6 minutes. Once or twice a week radiate the whole body, using medium current.

DIABETES. This disorder of the saccharine assimilation, sometimes of minor, at other times of greater, significance, requires immediate professional treatment. Often there is troublesome pruritus, which is very agreeably alleviated by high-frequency treatment. Treat the itching parts for 6 - 7 minutes twice daily with the electrode UE 1 or UE 2, using medium current.

5. Disorders of the breathing organs.

Ailments of the air-passages frequently receive too little attention and then lead to head-pressure and headache and other troublesome symptoms injurious to health.

MASAL CATARRH is catarrhal inflammation of the mucous membrane of the nose. About twice a day radiate with the surface electrode (UE 1) over the bridge and root of the nose and the brow, each time for 5 - 6 minutes with medium current. Then introduce the nose electrode, well ciled, into the nose, and allow weak current to act directly upon the mucous lining twice daily for 3 minutes. Inhalation would also be advisable.

HAY-FEVER occurs only at the time of grass pollination. High-frequency treatment as for ordinary nasal catarrh. In order to increase future capacity for resisting this unpleasant ailment, undertake twice a day regular treatment, as above, of the nasal membrane with the insulated nose electrode (UE 11).

NOSE BLEEDING. If nose bleeding is of frequent occurrence, undertake regular high-frequency treatment. Radiate the face with the electrode UE 1 and with the electrode UE 7 on the neck, for 3 - 4 minutes twice daily. Use medium current. During the bleeding bend the head backwards and radiate mape of neck and the shoulder.

ACUTE CATARRH of the LARYNGEAL ARTERY manifests itself by the voice becoming suddenly husky or hoarse,
often quite aphonous. Treat the neck, chest, add
back with the neck and condenser electrode (UE 2) for
5 - 8 minutes twice daily with medium current. For
this ailment, still further good service is rendered
by the ozone-inhaler: 8 inhalations twice a day.

CHRONIC CATARRH OF THE LARYNGEAL ARTERY. The chronic form shows itself by a feeling of dryness and by a tickling in the neck. Treatment as for acute catarrh.



Heart treatment with the Spiral Electrode for heart trouble or after exertion in sport.

in with the mouth.

ACUTE BRONCHIAL CATARRH is almost always accompanied by a rise in temperature. Prolonged irritating cough and expectoration occur increasingly. Radiate chest and back with the electrode UE 1 or UE 2 twice daily for 6 minutes with medium current; in addition, 10 inhalations twice daily of ozoneinhalation. The inhalation treatment has a particularly beneficial effect upon the course of this ailment. Stronger treatment: radiate the neck with the neck-electrode and place the inhalation electrode conveniently near. Breathe

CHRONIC BRONCHIAL CATARRH may be recognised by longstanding Gough irritation, beginning generally in the early morning, but also occurring when there is a rapid change in the temperature of the air. Treatment as for acute catarrh.

INFLUENZA. This ailment, which occurs in the most varied forms, may be advantageously combated by high-frequency. Treat forehead, temples, and cerebellum by gentle radiation with the surface electrode (UE 1). Indirect radiation is also very useful.

Use the electrode UE 11 for the indirect treatment twice daily for 4 - 5 minutes. As a secondary treatment, radiate trunk and legs.

ASTHMA. Attacks of difficult breathing. They arise through spasmodic contractions of the bronchial muscles, and occur mostly at night. During the attack place the condenser electrode (UE 2) on the chest, the back and the lungs and allow weak current to act for 5 - 6 minutes. After this, you may treat for a further 5 minutes neck and back with the surface electrode (UE 1), using medium current. For this complaint ozone-inhalation is also very effective; begin with 3 inhalations, increasing daily up to 10 (not more). Do not give up the treatment when free of attacks: radiate chest, back and abdomen for 5 minutes with the surface or condenser electrode.

SWOLLEN GLANDS. Direct radiation of the glands with the surface electrode (UE 1) for a few minutes, with medium current. You may also use the electrode UE 4 and for internal treatment the electrode UE 23 twice daily for 4 - 5 minutes.

6. Diseases of the heart and blood-vessels.

As the heart provides for the circulation of the blood within the body, heart trouble is not confined to itself, but also soon leads to disorders of a general character.

DISORDER OF THE CARDIAC MUSCLES. Impaired bloodcirculation due to failure of the heart's functioning. Radiate twice daily with the electrode UE 1 or UE 8 for 4 - 6 minutes, using weak current, and once with the massage roller.

OVERSTRAIN AND WEAKNESS OF THE HEART. Treat the heart region for 5 minutes with the electrode UE 8, using

weak current; after this, radiate from the feet or the pelvis up to the heart once or twice a day for 5 minutes with the surface (UE 1) or condenser electrode (UE 2), with medium current.

NERVOUS HEART-DISORDER (HEART NEUROSIS). The treatment is fundamentally that of the nervous condition; but the advice applicable to heart diseases in general must also be borne in mind. High-frequency treatment as for heart weakness, and in addition occasional charging for 2 or 3 minutes with weak current.

HARDENING OF THE ARTERIES is a sign of age, which, though it cannot be arrested, may be postponed.

Manner of life should be extremely temperate, bowel functions regular; constant use of alcohol, tobacco, coffee, etc. to be given up. Radiate once a day for 5 minutes with the surface or condenser electrode the whole body, front and back, always towards the heart; further, occasional charging for 2 or 3 minutes.

VARICOSE VEINS: these are veins in the legs which are distended, stand out bluish, generally tortuous, caused by obstructed blood circulation. Radiate twice daily for 6 - 7 minutes with the electrode UE 1 or UE 2, with cap, using medium current. Later on, with the condenser electrode and massage roller.

BAD LEGS. Treatment as for varicose veins and herpetic eruptions.

7. Anemia and Chlorosis.

In anemia and chlorosis the chief factor is the considerable diminution in the quantity of the red colouring matter in the blood. The main causes are unsuitable food and lack of air and sunshine.

Obviously, treatment must first of all give attention to both these points. High-frequency treatment to be applied generally. Radiate the body 3 times daily with the surface electrode (UE 1): the upper part of the body the first time, the second time the lower part; the third time treat the whole body with the massage roller. In addition, ozone-inhalation every second day for \(\frac{1}{4} \) to \(\frac{1}{2} \) minute, and occasional charging of the whole body for 2 to 3 minutes.

8. Affections of the urinary organs.

These diseases usually develop slowly and have a lingering course; at the outset, they cause only slight general discomfort, such that the sufferer is unaware of urinary disorder.

INFLAMMATION OF THE KIDNEYS. This is to be regarded as serious, and a doctor should be consulted. The process of recovery can be materially accelerated by high-frequency. Treat twice daily the lower parts of the back with the surface electrode (UE 1), later on with the condenser (UE 2), each time for about 5 - 6 minutes, current at first medium, later strong. Or indirect treatment (massage) of the kidney area, in conjunction with radiation with the condenser (with cap).

KIDNEY STONES, the presence of which is first suspected when there is a sudden attack of kidney colic. Consult a doctor. Immediate high-frequency application for relief of the pain. Radiate especially the



Radiation of the Kidney area.

painful kidney area
with the surface
electrode (UE 1),
and then also the
whole of the side of
the abdomen as far as
the groin for at least
9 minutes, using
medium current.

RETENTION OF URINE:
inability to pass
urine. Immediate aid
is indispensable;
hence the doctor must
be consulted. Highfrequency treatment
is best undertaken
with the condenser
electrode (UE 2).
Place it in the
region of the bladder
and treat with weak

current for about 11 minutes.

BLADDER-WEAKNESS; BED-WETTING. In order to strengthen the membrane of the bladder, the latter must temporarily be spared, and the flow of liquid to it must be limited to the utmost. Treat twice daily for 9 minutes with the massage-roller, using weak current in the first few days, and then medium strength. After emptying the bladder, move the electrode to and fro in the bladder area, massaging vigorously.

9. Skin and Hair effections.

In the case of long-standing skin disorders, a diet scanty in meat must be adopted and regular high-frequency skin-massage. Radiate with the electrodes UE 1 and UE 15 once or twice daily for 5 - 6 minutes.

SKIN IMPURITIES (Blackheads, pimples, etc.). See under Beauty-culture.

SKIN DISFIGUREMENTS (Freckles, moles, corns, etc.)
See under Beauty-culture.

BOILS. By boils we mean acute inflammation of the glands of the skin and hair-follicles. Should numerous boils constantly arise, then we speak of a FURUNCLE; should several boils close together overflow into each other, then we have a CARBUNCLE. In such cases, medical advice should at once be sought. High-frequency treatment is undertaken in the immediate neighbourhood of the boil twice daily with the surface electrode (UE 1) or with the electrode UE 2 or UE 3. Work round the boil for about 8 minutes, applying mild to medium current. Continue this treatment until the boil has come to a head. Generally it will not develop so far, but if it does, it can then be opened. Do this with the cautery electrode, placing its wire-point about 1/20 in. away from the yellowish head of the gathering; then let the sparks act upon this for a very short period. This causes the boil to open and the pus begins to flow out. The operation must be entirely sterile.

ECZEMA, HERPES, PRURITUS. In radiating skin-diseases, it is necessary to wrap the surface electrode in a piece of clean linen, so as to obtain slight fulguration and to impart ample ozone to the skin. A fresh linen cloth must be used for every radiation. Apply

weak current. Use the electrodes UE 1 or UE 2, and the electrodes UE 17 and 17A for 4 - 5 minutes twice a day.

SWELLINGS. Heal the blood by means of ozone - inhalation, in conjunction with radiation of the region around the affected parts with the surface or condenser electrode (UE 1 or UE 2), two or three times daily for 5 - 8 minutes with medium current.

ULCERS. Treat as for Boils.

ERYTHEMA. See under Beauty-culture.

COLD FEET are indications and manifestations of illnesses of various kinds. To achieve a more vigorous blood circulation, radiate legs and feet energetically with the electrode UE 1 or UE 2, with cap, for 6 minutes twice a day.

WOUNDS AND INFLAMMATION ARISING FROM THEM can be favourably affected by high-frequency. Apply the electrode UE 1 or UE 2, with cap, for 6 minutes twice daily.

CHILBLAINS. Radiate the swollen parts twice a day for 4 - 5 minutes with the electrode UE 1 or UE 2, using medium current. After-treatment with the massage-roller.

ALOPECIA, DANDRUFF. See under Beauty-culture.

10. Eye and Ear affections.

It will be obvious that the diagnosis and treatment of such important organs of sense as eyes and ears cannot be undertaken by the layman. Still, there are often discomforts present which may be alleviated and cured by high-frequency treatment.

INFLAMMATION OF THE EYELID. Carefully bathe the eye several times a day with lukewarm camomile-tea. High-frequency treatment: Once or twice daily with the electrode UE 18 for 2 - 3 minutes, using mild current.

STY. Place overnight on the sty a handkerchief damped in camomile-tea. Apply high-frequency treatment with the electrode UE 18 twice daily for 2 to 3 minutes, using weak current, or treat with the cautery electrode.

CATARRH OF THE CONJUNCTIVA. The eye is very red, waters copiously, often emits matter. High-frequency treatment: twice daily for 4 minutes with the electrode UE 18, using weak current.

EAR TROUBLES. To be treated by a specialist. Highfrequency treatment as supplementary to the necessary measures prescribed. Use externally the electrode UE 1 or UE 2 for 5 - 6 minutes, twice a day. Internally use the electrode UE 21, by carefully inserting it into the auditory canal and applying weak current. Twice daily for 2 - 3 minutes.

BOILS IN AUDITORY CANAL. Boils in auditory canal are very painful. High-frequency treatment twice or three times a day. Treat with the ear electrode for 3 minutes each time, using weak current.

SEXUAL DEBILITY, IMPOTENCE. Radiate the sexual organs

for about 5 minutes with the surface (UE 1) or penis electrode UE 12, beginning with mild current and gradually increasing. In the case of a female patient, radiate the abdomen with the surface electrode and for internal treatment use the vaginal electrode UE 26, the treatment to be applied by the doctor.

HIGH - FREQUENCY AS AN AID TO BEAUTY - CULTURE .

With the aid of high-frequency application, beauty culture can make extraordinary progress, as well-tried results have already shewn. Treatment consists principally in general attention to the skin, especially that of the face, eyes and hair.

Care of the skin.



The value of skin culture for the maintenance of the health of the body was already known to the ancients, for they devoted attention to thorough care of the skin. especially by exposing the body to the natural requirements for health. viz., air, light and sunshine. Stimulation of skin functions means for the body relief for the lungs. relief for the kidneys. better regulation of blood circulation, stimulus to increased formation of blood, strengthening of the processes of assimilation, and finally increased elimination of digestive by-products.

Make a habit of regularly treating the whole of the surface of the skin for about 3 - 4 minutes twice daily with the electrode UE 1. For this, supply the electrode with medium-strength current and with it stroke downwards towards the heart. For very loose muscles, use the massage-roller, which must be firmly pressed on. In bad weather and in the cool season this treatment should be undertaken twice a day.

UNHEALTHY SKIN. Food to be dieted; air and sun baths; in winter, vapour baths. Radiate the whole of the unhealthy skin region and its immediate neighbourhood twice daily for 4 - 5 minutes with the electrode UE 1, using weak current, but for skin marked with scars, current should be medium to strong. In addition, purely local treatment with the cautery electrode.

LINES AND WRINKLES on the face are not always signs of age. Radiate the face from the chin upwards, to right and left, once daily for 5 - 6 minutes with the electrode UE 1. Continue this for one week. Then radiate once daily with the electrodes UE 17 and UE 17A for 3 - 4 minutes. High-frequency massage tightens and smooths the skin.

FRECKLES, MOLES. These are irregular agglomerations of the skin pigments. FRECKLES are the size of lentils, dark, and do not stand out on the skin. MOLES project more or less beyond the upper surface of the skin and have a light or dark brown appearance. Treat with the cautery electrode for a few seconds, using medium current, until gradually the places turn white.

SCARS AND PROUD FLESH. Treat as above.

WARTS. Treatment as above, but only until the wart turns white on the top. Longer radiation serves no purpose and may only cause pain. The application of the electrode UE 15 should not last longer than 1 - 2 minutes, once a day. The wart will get dry and come off.

CORNS. Treat as above. Using mild current, spark the corn only until it becomes white on top. Treat very cautiously.

CARE OF THE EYES. For eye-treatment, bathe the eyes with lukewarm camomile at night. Then treat the eyes for 3 - 4 minutes with the electrodes UE 1 and UE 17, once or twice a day. Apply weak current.

HAIR-TREATMENT is to be undertaken daily with the comb-electrode UE 6 for 2 - 3 minutes. Use the electrode UE 11 for indirect treatment. Radiation with weak current. Furthermore, give air and light free access to the hair, wash the latter weekly with good tarsoap, afterwards massaging the scalp for a few minutes with damp finger-tips.

ALOPECIA, DANDRUFF. Where there is considerable formation of dandruff, which is usually followed by falling hair, it is desirable to obtain the utmost possible circulation of blood to the roots. High-frequency treatment is admirably suited for this purpose. Radiate the scalp twice a day for 4 minutes, with the comb electrode, applying medium current.

A WELL DEVELOPED FIRM BUST undoubtedly forms
part of the ideal conception of feminine beauty.
A course of high-frequency treatment carried out
with this aim in view, can be of service in cases

where Dame Nature has been somewhat niggardly. Start with circular radiation around the breasts with the skin-surface electrode, using weak current. At the outset, radiate each breast for about 6 minutes, increasing later to 8 minutes. Keep the electrode in constant close contact with the skin, but do not touch the nipples. After this preliminary treatment, place the hollow-shaped breast-developer electrode UE 9 over the breast and let the current quietly act on the latter for about 1 minute.

AFTER SHAVING. In conclusion, let us refer to the application of high-frequency after shaving. In order to give a soothing effect to the smarting and tightness of the skin often experienced after shaving, dry the skin completely and apply the skin-surface electrode lightly to it. The smarting of the skin will soon subside. The production of ozone occasioned by the treatment will also have a disinfecting effect upon the skin. Further, in cuts, the bleeding can be immediately stopped by sparking with the electrode: this causes the blood to clot at once.

ELECTRODES AND THE CARE OF THEM.

Electrodes are vacuum-tubes which consist of a variously-sided, hollow glass body, shaped to correspond with the particular purpose for which it is used. The hollow space in the glass has been sufficiently pumped free of air for the vacuum to provide the best conductivity for the electric current. When the apparatus is adjusted the current is conducted through weak gas which is enclosed in the hollow glass, and by this means the otherwise very hard effect of the high-frequency current is toned down to correspond with the adjustment of the current. The passage of the electric current through the weak gas is indicated by a strong show of light, which may vary according to the height of the vacuum and the kind of gas enclosed in the electrode.

Cleansing of the electrodes.

The cleansing of the electrodes after use must be carefully and regularly undertaken. Generally it will suffice to rinse the electrodes each time with lukewarm water and leave to dry in the air. In addition, it is advisable to cleanse with methylated spirit every second day. In the case of skin affections, wounds, and infectious diseases, regular cleansing with methylated spirit is essential. Lysol may, of course, also be used.

NEON-Electrodes. As already mentioned, there are electrodes filled with neon-gas, which lights up red when the current passes through. These electrodes, used with weak current, have a strikingly mild radiation, so that in cases of itching, etc. they may be applied with particular advantage. With stronger adjustment, however, they produce a very intensive current. As is well known, the electric current finds in these neon-electrodes much greater conductivity than in the vacuum electrodes.

LIST OF ELECTRODES

UE 29 Haemorrhoid Electrode.

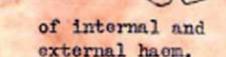


diameter $\frac{6}{10}$, $\frac{9}{10}$, $1\frac{1}{10}$ in.

UE 33

Reotal Dilator, dia-

meter 6,9 110 in. for simultaneous treatment external haem.



UE 8 Spiral Heart Electrode

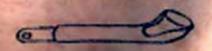


UE 9 Chest Developer Electrode, concave shape



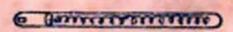
UE 13

Cataphoric Electrode, with aperture for insertion of cotton-wool steeped in medicament





UE 23 Throat Electrode, insulated



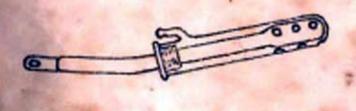
UE 11 Glass Saturator for indirect treatment



UE 12 Penis Electrode

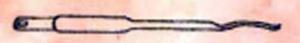


UE 26 Vagina Electrode



UE 28
Vagina Electrode,
insulated, with
perforation and
with mouthpiece
for bellow

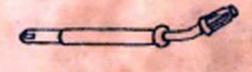
UE 16 Eyelid Electrode



UE 18 Eye Electrode, single



UE 15 Cautery Electrode, for removing warts, etc.



UE 20 Nose Electrode, insulated



UE 21 Ear Electrode, insulated



UE 5% Dental Electrode, with flat top, for introduction of chemical solutions



UE 57 Cataphoric Electrode for Dentists



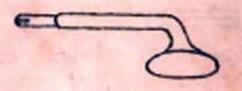
UE 56
Dental Electrode, pointed shape, for treatment of abscesses



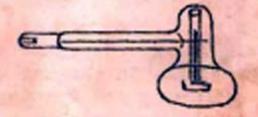
UE 58 Electrode for treatment of front gums



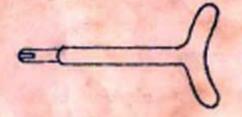
UE 60 Electrode for internal treatment of gums of jaw Test Tube UE O



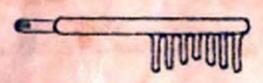
UE 1 Surface Electrode



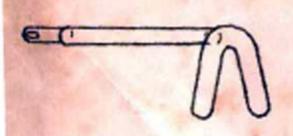
UE 2 Condenser Electrode, for special treatment of rheumatism, etc.



UE 4
Neck and Nape Electrode,
for external treatment



UE 6 Comb Electrode, for care of hair and treatment of scalp



UE 7 Spinal - Electrode

APPENDIX.

WHITIOW is a popular term applied to all inflammations of the deep-seated tissues in the fingers, whether the structure affected be the root of the nail, the pulp of the finger-point, the sheaths of the tendons that run along the back and front of the fingers, or the bones.

Symptoms are a throbbing pain in one of the fingers, later swelling and redness round the root of the nail or in front of the finger. In severer forms the whole hand becomes swellen, the glands in the armpits enlarge, there is general feverishmess and symptoms of blood-poisoning may appear. When the tendon-sheath becomes inflamed, the tendon may be destroyed. Warm fomentations e.g. of boracic lint, and an opening through the tough skin form the proper line of treatment. Radiate twice daily for 4 - 6 minutes with the electrode UE 1.

constipation is a chronic condition in which the bowels are opened too seldom or incompletely. This must be carefully distinguished from acute obstruction, a much more serious condition. A constipated condition may be caused by a deficiency of bile, sedentary employment, drinking water of a certain quality, piles, chlorosis, neurasthonia, some diseases of a constitutional nature,



Ear treatment
with the Electrode
UE 21.

e.g. diabetes etc. mechanical obstruction by undigested remnants and other local causes. When the condition has become habitual, the whole digestion is thrown out of gear. The other bodily functions become impaired also, so that bloodlessness, headache, debility, loss of memory and tendency to apoplexy are all common occurrences. The diet is of vital importance. Treat with electrode UE 1 on abdomen for 5 - 6 minutes twice daily, and with electrode UE 33 in rectum for 3 minutes twice daily.

NEURALGIA. In its strict sense it means the existence of pain in some portion or throughout the whole of the distribution of a sensory nerve without any distinctly recognizable structural change in the nerve or nerve centres. This strict definition however would not be applicable to a large number of cases of nerve pain, which in many instances is connected with pressure on, or inflammation of the nervo. Hence the word is generally used to indicate pain affecting a particular nerve or its branches, whatever the cause.

As a rule neuralgia betokens a depressed or enfeebled state of health. It often affects the gouty or rheumatic. In weakened conditions of the system from unsuitable or insufficient food or as a result of any drains upon the body, or in anaemia from any cause. or when certain disease poisons are present, it is common for neuralgia to come on. Further any strain upon the nervous system, such as overwork or anxiety, is a powerful predisposing cause. Among the exiting causes of an attack of Neuralgia by far the most common is exposure to cold and damp. But irritation may be produced by numerous other causes such as bruising a nerve by blow, a decayed tooth, diseased bone, local inflammations, or some other source of pressure upon a nerve trunk. Also a foreign body when situated close to a nerve. Further there are causes of a reflex character which are capable of setting up Neuralgia at a distance. such as intestinal or uterine derangements.

Those cases in which, after removal of a piece of nerve, inflammatory changes and thickening of the nerve-sheath are found, receive the name of NEURITIS, but as regards the question of pain, there is no difference between Neuritis and Neuralgia due to other causes, except that pain caused by neuritis tends to be continuous and is very difficult to treat.

(Treat Neuritis with the electrode UE 2 with cap for 4 - 6 minutes twice daily and apply cintment after that treatment.)

One of the most common forms of Neuralgia is FACIAL Neuralgia and one of the most severe. It is usually confined to one side. INTERCOSTAL Neuralgia is a pain affecting the nerves which emerge from the spinal cord and run along the spaces between the ribs to the front of the body.

SCIATICA affects the great sciatic nerve which emerges from the pelvis and runs down the back of the thigh. It is also often connected with a rheumatic or gouty constitution. Treat with the electrode UE 2 with cap

> for 4 - 5 minutes twice daily and apply ointment afterwards.



Treatment of the leg with the electrode
UE 1 with cap.

NEURITIS means inflammation affecting a nerve or nerves which may be localised to one part of the body. In cases of LOCALISED Neuritis the fibrous sheath of the nerve is usually at fault, the actual nerve-fibres being only secondarily affected. This condition may be due to inflammation spreading into the nerve from surrounding tissues, to cold, or to irritation by pressure on the nerve, and the symptoms produced vary according to the function of the nerve, in the case of sensory nerves being usually neuralgic pain, in the case of motor nerves more or less paralysis in the muscles to which the nerves pass.

In multiple Neuritis, which is always due to some general or constitutional cause, the nerve fibres themselves in the small nerves degenerate and break down. The cause of this degeneration may be said, in general terms, to be in every case some poison either taken into or produced in the body and circulating in the blood. Treat with electrode UE 2 with cap for 4 - 6 minutes twice daily and apply cintment afterwards.

ARTHRITIS means inflammation of a joint or joints. The chief forms are rheumatic, gouty, rheumatoid, generational, tuberculous or traumatic (due to wounds or injuries). Radiation should be applied only in subscute and chronic cases. Use electrode UE 2 with cap and radiate for 3 - 4 minutes twice daily. Apply cintment afterwards.

CONJUNCTIVITIS or inflammation of the conjunctiva (Mucous membrane connecting inner eyelid and eye ball) is a very common eye affection. Micro-organisms are the cause of nearly all cases of acute and subacute conjunctivitis. Its most characteristic sign is that the affected eye becomes red or bloodshot, which is due to the dilatation of the numerous vessels which ramify over the conjunctival surface. In severe cases there may be very great pain. The discharge from the eyes in the early stages is thin and serous, but assumes more or less the character of pus after a few days. An attack

of acute conjunctivitis lasts for 1 to 2 weeks. Treat with electrode UE 18 for 2 - 3 minutes twice daily.

COMBOILS (Pyorrhoea alveolaris) or Rigg's disease is a condition of suppuration within the sockets of the teeth in which large quantities of pus are produced round the teeth and are swallowed with the food, so that increasing ill-health results. The condition is often confused with the much milder state of inflammation of the gum margins, known as GINGIVITIS. The cause is not known, so in some cases it is attributed to the presence of an amoeba within the tooth socket. The condition is associated with various diseases in which there is marked loss of vitality, like permicious anaumia and chronic inflammation of the joints.

Radiate twice daily with electrodes UE 50 and UE 58 for 2 to 3 minutes.

ARTERIO-SCLEROSIS which is a condition of thickening and rigidity affecting particularly the middle coat of arteries, comes on as a natural change in old ago, but



in some persons the change tends to come on early in life, while certain diseases, of which the chief are gout, syphilis, alcoholism, and lead-poisoning bring it on in middle life.

Treating the stomach.

The results are general debility with wasting of the muscles, failure of appetite, tendency to faints and fits, headaches, coldness of the hands and feet with great liability to gangrene, and most important of all, an early failure of mental power due to thickening and blocking of the arteries in the brain. There is a great liability to apoplexy. All acute diseases are more serious in such a person. Treatment with High Frequency Violet Rays is most beneficial. Radiate twice daily for 4 minutes with electrode UE 2 with cap.

HIGH BLOOD PRESSURE is a circulatory state from any cause, in which the pressure of blood within the arteries becomes elevated beyond normal limits. In general the term includes any raised arterial pressure, whether temporary, intermittent, paroxysmal or permanent, involving systolic pressure, diastolic pressure, or both, of renal or non-renal origin. High Blood Pressure is the symptomatic expression of some underlying cause or causes, as yet unperfectly understood. Elevation of blood pressure begins as a transient functional phenomenon in those disposed by heredity or constitution to an overresponsive vasomotor system when exposed to psychical or physical stress. In later life it may be a reaction to the hurry and strain of modern civilisation in the form of heightened excitability of the vasomotor centre.

Effects of long-continued High Blood Pressure on the system of heart vessels: the muscular tissues of the heart, arteries and arterioles become hypertrophied. Loss of the power of speech, a slight or temporary paralysis of one or more limbs, or blindness serve as warning signals of a notable increase in blood pressure or of small localized haemorrhages in the brain. The kidneys may also be affected. Symptoms generally include coldness in the extremities, digestive disturbances, malmutrition, difficulty in breathing, palpitation, fatiguability, pressure headaches, migraine, occasional

noises in the head and defective vision, dizziness, anxiety states, neuralgia, irritability.

There is difference of opinion as to whether protracted high blood pressure favours the development of arteriosclerosis. High Blood Pressure and Arteriosclerosis may run their courses independently of each other. Physical measures of control include rest, exercise, deep breathing exercises, resistance exercises, muscular relaxation, light massage, hydro-and balneotherapy, fasting and regulation of diet. A particularly effective means of obtaining relief is offered by radiation with a High Frequency apparatus.

Use electrodes UE 1 and UE 2 twice daily for 6 minutes alternately on neck, abdomen and calves. Also use electrode UE 8 for the heart 2 - 3 times weekly, and electrode UE 41 for inhalation 4 - 5 times weekly.

WOUNDS. A wound is any breach suddenly produced in the tissue of the body by direct violence. An extensive injury of the deeper parts without corresponding injury of the surface is known as a bruise or contusion. Four varieties are usually described: incised, punctured, lacerated, and contused. The reaction of the tissue to an injury is similar to that produced by another irri-



tation viz. an inflammation which finally heals the part. The new tissue formed is mainly fibrous tissue. Healing of wounds will be effectively promoted and bleeding

Treatment of Lumbago with Electrode UE 1. stopped by applying High Frequency radiation. Treat with electrodes UE 1 and UE 3 twice daily for 2 - 3 min.

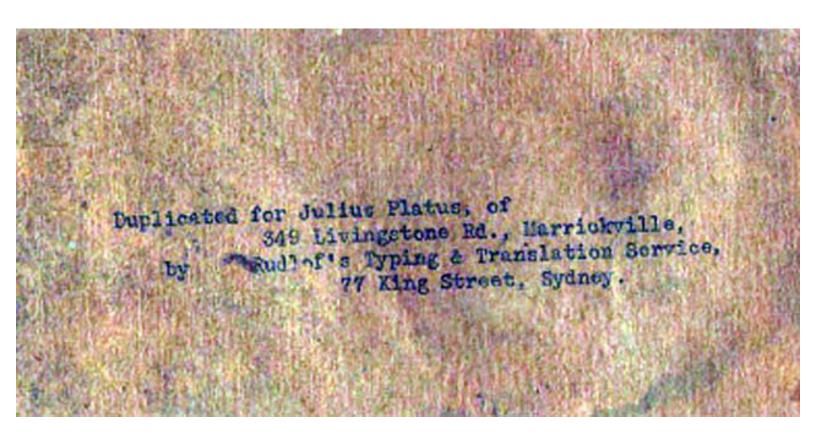
ECZEMA consists of an inflammation of the true skin, of catarrhal character, together with the formation of papules, vesicles, or pustules, attended with more or less discharge, and with itching and other symptoms of irritation. It cannot be regarded as a disease itself, but is really a symptom denoting the reaction of the skin to various forms of irritation. It may be either acute or chronic and presents itself in a variety of forms. It is usually best treated by attention to the general health, and by a simple and carefully regulated diet, while locally, apart from some soothing application, treatment by radiation with the High Frequency apparatus will be found of benefit. Use electrode UE 1 two or three times daily for 4 - 5 minutes; in serious cases use electrode UE 15 for 1 - 2 minutes.

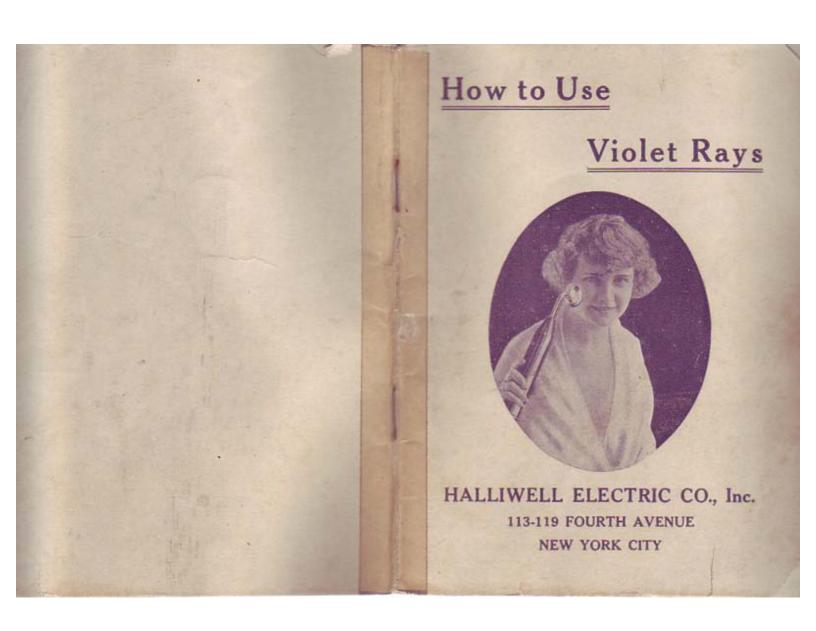
SEBORRHOEA is a term applied to describe an accumulation on the skin of excessive sebaceous (oil-forming) secretion mixed up with dirt and forming scales, or a distinct encrustation. On the head (where it is commonly seen) it may interfere with the nutrition of the hair and cause partial baldness. The treatment is local, the crusts may be softened with oil and the affected skin regularly washed with superfatted soap. Weak ointment also aids their disappearance. The fatty sebum frequently accumulates in the sebaceous duots, giving rise to minute black points so often noticed on the face, back and chest, to which the terms black-heads and comedones are applied. Better blood circulation, brought about by the stimulating application of Violet Rays will prevent this condition. Use electrode UE 6 twice daily during 4 - 5 minutes for scalp; and electrode UE 1 for other parts of the body.

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What Violet Rays Are

THE Violet Ray High Frequency Cur-Ray," is a new phase of electricity. It rent, or commonly called the "Violet is applied to any part of the human body without pain, muscular contraction or disagreeable sensation of any kind. The electrical oscillations representing the High Frequency Current follow each other with such tremendous rapidity that they outspeed our nervous sensibility, we do not become conscious of their presence, in other words, our nerves are insensitive to the electrical oscillations of the Violet Ray. The oscillations are so rapid that they exceed many hundred thousand repetitions per second. The Violet Rays are pleasing and though most stimulating and highly invigorating to the entire system, nerves or muscles cannot record the presence of their great power.

What Violet Rays Do

Violet Rays or High Frequency Currents benefit all living matter. Through the glass vacuum applicator light, heat, electric energy and ozone are created. These forces are uniformly potent in relieving and eliminating human ailments. Violet Rays present a remedy upon which we can rely. They are positive and certain in action. They will reach where medicine does not and often cannot—yet they cause no pain, no disagreeable sensation or discomfort. They furnish a soothing relief. They destroy germs and have a strong power over infection.

Keep This in Mind

Do not be afraid of the Violet Ray High Frequency spray or discharge. It never harms: It causes no shock. Use Violet Rays freely so you may familiarize yourself with

their peculiar nature.

Violet Rays grow in their usefulness the more you study their action and effect. Make it clear to yourself what you wish to accomplish. If you want a soothing effect, don't apply a strong spray by holding applicator distant from the part to be treated; make a close contact instead with the bare skin. If you wish stimulation treat through the clothing with a current strong enough to reach your tissues. If you desire a tranquilizing effect to quiet the nervous system, do not use a current strong enough to cause irritation. If you actually want to destroy a wart or small growth, you must use an escharotic spark from a sharp point in order to obtain a cauterizing effect. Let these be the guiding principles to you and the result in the use of the Violet Rays will be surprising.

Many people, after stopping their treatments for many weeks and even months, report continual increase in health and strength. As a matter of fact, the greatest benefit comes after the course of treatment is over. This answers the question often asked as to whether the treatment does not have to be kept up indefinitely.

Different Effects Obtainable

The treatments can exert different effects according to their way of administration.

First—They can be sedative or quieting. You can charge your entire body with the Violet Ray high frequency current. You can electrify yourself completely. You can calm painful sensations by sedative treatments; besides sedative action is strongly constitutional in its effect. Sedative treatments are of great benefit in all nervous ailments. They tranquilize your nerves. Sedation can be produced locally by keeping the applicator in close contact with the part to be treated. Nervous troubles are quickly and most beneficially influenced by the sedative current. A general electrification treatment refreshes the entire nervous system.

Second—They can be stimulative. Stimulation is produced whenever an electrode is somewhat lifted during the application or

used through clothing or cloth. This stimulation is caused by the many small sparks called the High Frequency Spray. They bombard the area which they cover, causing a tingling but pleasant sensation. They have a beneficial heating effect, too. Besides they generate ozone. Particles of this ozone are driven right into the tissue, causing the ozonization of the blood. Sparks are also germkilling and have a great power over infection.

How To Treat With Violet Rays

The following instructions are written in the simplest way possible. They will give excellent results, if properly followed.

Abscesses—Use electrode No. 1 and keep it in close contact with the skin. Use enough current to get the effect of the heat generated. Duration of treatment 7 to 10 minutes, repeated daily or twice a day, if necessary. If applied to a developing abscess, its growth can be arrested.

Acne (Pimples)—This distressing condition, so common in young people, is one in which quick and permanent relief may be obtained by the use of a short spark. Use electrode No. 1 and treat the entire surface for about 6 minutes. About the nose and other sharp angles a smaller electrode (No. 1a or 1b) is more desirable. Where blackheads are deeply imbedded in the tissues, results may be had by using a very mild fulguration spark (electrode No. 20), thus softening the imbedded mass and permitting of its easy removal. Steaming the face previously will be found helpful. As in abscess the diet should be carefully regulated, rich and greasy food should be avoided and the bowels kept in a healthy condition.

Alopecia (Loss of Hair)—Use a weak current at first, and increase to a medium strength later on, with electrode No. 3 or 3a. Pass the comb back and forth over the entire scalp for about four minutes every day. Use the same treatment for baldness due to sickness and for gray hair in order to restore it to its natúral color.

Alcoholism and Drug Addictions—In alcohol, morphine or opium habits, apply a strong current over liver, solar plexus and spine, for 6 to 8 minutes daily. In cocaine habits use a mild current to the soles of the feet, arms and legs until reddening results. All these applications should be made through some interposed towel or clothing. Never apply current through shoes. Short sparks are best for all treatments in these cases.

Anemia and Chlorosis—Treat chest, abdomen, back and spine, covering the whole as thoroughly as possible, with electrode No. 1 for from 8 to 10 minutes three to six times per week. High Frequency currents increase the oxygenation of the blood and hence are as effective as iron tonics. Ozone inhalations are very helpful; in fact, are of the utmost value in these cases. Use Ozone Generator No. 28.

Arteriosclerosis and High Blood Pressure—Daily treatments of about 8 minutes' duration will serve to lower the blood pressure. As the blood approaches normal, the treatments may be reduced to three a week, then to twice a week. A treatment every week or two should be maintained for some time in order to be sure of the permanency of results. Apply electrode No. 1 or No. 2 over the body generally, using a medium current strength.

Asthma—In asthmatic conditions, if the disease is of long standing, the best results may be obtained through the use of the Ozone Generator, electrode No. 28. Choking and coughing fits will generally be promptly alleviated by these means. A local auxiliary treatment may also be used for a sedative effect by a gentle massage over the area with the surface electrode No. 1 and mild current.

Also apply electrode No. 5 to throat glands for about 6 minutes.

Ataxia—Use as sharp sparks as you can tolerate, along the spine, over buttocks, abdomen and to the back of the legs. Apply electrode No. 1 or No. 4. Daily treatments lasting about 10 minutes necessary at first. They can be gradually decreased with the progressing improvements to about two a week.

Backache—Treat sore muscles with electrode No. 1. This will relieve pain. As backache may be due to weakness of the bladder or sexual organs, lumbago, rheumatism, kidney disease, it is important to treat the cause as well.

Barber's Itch (Sycosis)—First cleanse the infected area with warm water and castile soap, and a mild antiseptic wash. Treat then with mild current from the surface electrode No. 1 in close contact, followed by a short spark till counter-irritation is produced. The condition is stubborn and may require extended treatment.

Bladder Disease (Cystitis)—The effect of vacuum tube treatment through the rectum or urethra is remarkable in inflammation of the bladder. Treatment lasting 7 minutes should be given daily at first and then every other

day. It is remarkable how fast the urine clears up in nearly all of these cases. Use electrodes Nos. 1, 2 or 2a.

Blackheads-See Acne.

Bronchitis—Short sparks applied with electrode No. 2 or 2a over the chest and back, until they are well reddened, will give relief. This treatment may be repeated every hour until a sufficient moderation of congestion is obtained. More important than the high frequency application is to ozonize the air by means of electrode No. 28.

Brain Fag—Use applicator No. 1 over the forehead and eyes and to the back of the head and neck with a spark just strong enough to have a good tonic effect. In all cases, 2 or 3 minutes' inhalation of ozone (electrode No. 28) is desirable.

Breast Development—Cover the entire area to be developed in your treatment. Use electrode No. 1 for about 5 to 8 minutes daily. Move it lightly over each side, from the neck downward and also from arm pit to arm pit, under each breast, pressing lightly upward.

Bright's Disease—Apply with electrode No. 1 over the region of the kidneys a strong current for at least 10 minutes every day.

8

Bruises—Treat with electrode No. 1 over injured area. First with close contact and later with gradually increasing spark. Use High Frequency lubricant.

Bunions—Electrode No. 1b or No. 24, using a fairly strong current, should be applied directly over the inflamed area followed by a gentle spark.

Callouses—On calloused areas on the foot a mild fulguration spark obtained from the fulguration electrode No. 20 will soften the hardened tissues so that they can be readily removed. If a resultant soreness follows, treatment over the area with the surface electrode No. 1 in direct contact with the skin will afford relief.

Cancer—Mild forms of cancer are treated with a strong spark. Use electrode No. 20. Surgery is usually required in conjunction. Consult authority.

Canker—A medium current for one or two minutes should be applied with electrode No. 10 or No. 15 or any suitable dental electrode.

Carbuncles—Use applicator No. 1 in loose contact with the inflamed area and pass it back and forth over it for ten to fifteen minutes. This will relieve pain and promote an early ripening of the carbuncle. Electrode No. 32 is also very convenient.

Catarrhal Conditions—In catarrh of the nose and throat the ozone generator No. 28 is of great value and should be used two or three times daily for about 5 minutes at a time, followed by treatment in the nostrils with the nasal electrode No. 16 or 29 with mild current for about 3 minutes. Care should be used that the current is not turned on until after insertion of the electrode.

Cataract—Five minutes daily treatments with electrode No. 18 with not too great an intensity of current; applicator in contact with closed eye-lids.

Chafe—Use Lubricant, followed by a medium current with electrode No. 1 for 5 to 6 minutes in close contact with skin.

Chapped Hands or Face—Apply Lubricant first. Then use a weak current with No. 1 electrode for two minutes in contact with skin.

Chilblains—Use electrode No. 1 for 6 to 8 minutes in contact with the skin. It may be held steadily over the chilblain or moved slowly about as defired. Repeat daily or every other day until cured.

Cold Hands or Feet—This being due to improper circulation in the extremities relief may be obtained by a gentle spark over their surface, gradually increasing until a slight redness appears and sense of warmth prevails. Use electrode Nos. 2 or 2a. Repeat often, if necessary three times a day.

Colds—Cold in the head will be benefited by inhalation from ozone generator (electrode No. 28), followed by mild current through nasal electrode Nos. 16 or 29. The surface electrode No. 1 may also be used over the antrum, mastoid region, and back of neck. See also Bronchitis.

Cold in Lungs—Treat the chest and back. Follow instructions given under Asthma. Take ozone inhalations repeatedly for several minutes. Electrode No. 28.

Constipation—Relief may be obtained by a thorough downward massage over the abdominal region with a surface electrode No. I applied first directly on the skin and followed by short spark over the same area. Ten minutes daily is advised first, later dropping to two or three times a week. If the constipation is particularly stubborn, peristaltic action will be stimulated by means of the insertion of an insulated rectal electrode (Nos. 14, 14a, 14b), properly lubricated, for a period of 4 to 6 minutes. The current should be applied after insertion.

Corns—Hard corns may often be entirely removed by the application of the fulguration electrode No. 20, care being used to apply the spark particularly upon the hard tissue and not on the surrounding area.

Dandruff—Shampoo the scalp before treatment, dry it thoroughly and apply a medium current, with applicator No. 3 or 3a, using it in the same manner as an ordinary comb; 3 to 5 minutes are sufficient. Repeat this treatment at intervals of 2 to 3 days. Do not use any hair tonic.

Deafness—Unless the drum of the ear is ruptured, chronic deafness may generally be relieved and in many cases entirely cured by high frequency treatment. The ear electrode No. 11 should be used for about 4 minutes. The gentle stimulation thus afforded to the delicate aural nerves and the mild massage of the drum will sometimes result in an immediate improvement in hearing. As a further treatment the surface electrode may be applied over the mastoid region for 4 or 5 minutes with a gentle, mild current.

Diabetes—Apply electrodes Nos. 1 and 2 over the abdomen, and if proper diet is observed, results will be quickly obtained. Apply a strong current for about 8 minutes through a thin towel twice a day.

Diphtheria—Apply to inside and outside of throat with electrode No. 10 and No. 15 respectively. Ozone inhalations have proven most beneficial (Ozone Generator No. 28).

Dyspepsia—Apply surface electrode No. 1 over stomach and solar plexus. The general tonic effect of ozone inhalations makes it a useful adjunct.

Earache—Is frequently relieved by application of the ear electrode No. 11, using a mild current for from 3 to 7 minutes. Applications to the back of the ear and over the side of the face covering the facial nerve with electrode No. 1 assist this treatment greatly.

Eczema—A handkerchief or gauze laid over the surface will cause a slight spark and is preferable. If the skin itches hold the electrode slightly away from the surface. This will relieve and gratify.

Eye Diseases—Iritis, retinitis, atrophy of optic nerve, conjunctivitis, trachoma, glaucoma, incipient cataract, paralysis of ocular muscles, intro-ocular hemorrhage have all been treated by high frequency currents. Close eyelids and apply a mild current with electrode No. 18 or 22 for short periods, not exceeding 3 minutes at one time.

Felons—Treat with No. 1 electrode and a mild current in close contact daily from 4 to 6 minutes.

Female Troubles—Use electrodes Nos. 7, 8 or 13. They should be lubricated before insertion. Turn the current on after insertion of electrode and turn the current off before removing the electrode to avoid unnecessary sparking. A medium current for 5 minutes is applied. Repeat treatment as circumstances require. During menstration an excessive flow of blood may result, as High Frequency currents draw the blood.

Fistulas—Use electrode No. 14, 14a, 14b and 31 as indicated. Lubricate electrode before insertion into rectum. Use a medium current for about 5 minutes daily.

Flabby Breast—A stimulating application with the surface electrode to the relaxed nipple of the flabby breast will immediately show its beneficial effect.

Freckles—Several weeks treatment will be required. Use electrode No. 1 daily from 4 to 6 minutes with a medium current.

Frost Bites—Treat affected part with No. 1 electrode, using a mild current for from 5 to 7 minutes.

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Forunculosis—Treat with No. 1 electrode. Mild or medium current strength. Inflammation ceases quickly.

Goitre—The absorption of tissue being necessary, treat with external throat electrode No. 5 in close contact with the skin and follow with moderately sharp spark all over the surface and sides of the protuberance. Persistence in this treatment is necessary.

Gout—This condition may be helped by a continued massage over the area with a surface electrode and a mild current. Pain may be felt at first. If so, begin with short treatment and increase. Do not treat during acute attack.

Gray Hair—The natural color of hair can often be restored by patient treatments with electrode No. 3 or 3a. See under Alopecia. Sometimes several months are required for first results. Keep the scalp clean. Use a current of sufficient strength for good stimulation every day once or twice.

Grippe (Influenza) — Cover spine, solar plexus, over eyes and sides of nose. Inhalations from Ozone Generator (No. 28) will greatly aid. Intra-nasal applications by electrode No. 16 or 29 is also beneficial.

Hay Fever—Apply electrode No. 1 over the nose and the spine and No. 28 in nostrils. It is advisable to anticipate the trouble and begin before discomfort is felt.

Headaches—Headaches are from varying causes. If relief is not had from applying to the seat of pain, cover the spine and stomach. Apply No. 1 electrode.

Hives and Rash—Use electrode No. 1 with medium current strength to affected area. Use High Frequency Lubricant before applying the electrode; 3 to 5 minutes should be sufficient. Repeat daily.

Hemorrhoids—Use insulated rectal electrode No. 31 with mild current for about 4 to 6 minutes, care being observed that the electrode is properly, lubricated and that current is not turned on until after insertion.

Insomnia—Cover back of head, neck and eye brows in order mentioned. Use electrode No. 1; a strong current is essential in treating this ailment.

Leucorrhea—Follow the directions given under female troubles. Also use electrode No. 4, moving it up and down the spine slowly. A strong current must be used for about 5 to 6 minutes daily. Lumbago—Since the object is to relieve pain, continue the treatment over painful area until all pain is dispelled. Use electrode No. 1 and as strong a current as can be tolerated. Repeat treatment whenever pain reappears until cured.

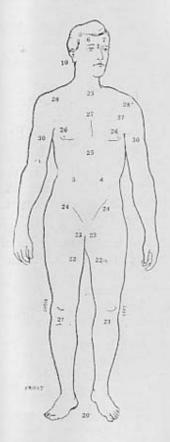
Massage—Let patient hold metal electrode No. 6 in one hand, turning on current after it has been grasped. Masseur's fingers will draw sparks to point massaged. High Frequency lubricant is excellent for massage.

Mumps—Treat the swollen parts with a medium current and electrode No. 1, keeping it in contact for about 5 to 8 minutes. Repeat as necessary, at least once a day.

Nervousness—Treat the spine, back of head and neck with a mild current, using electrode Nos. 1 and 4. Immediate results are felt in all cases. Use a weak current at first and increase the strength gradually; 5 to 8 minutes is the average duration of treatment.

Neuralgia—Apply to seat of pain, raising electrode occasionally to produce spark. First apply High Frequency lubricant. Apply with No. 1 electrode; time of treatment 5 to 10 minutes.

Neuritis—The first few treatments usually increase the pain, after which relief is felt, and



Condensed Directions for Treating Ordinary Ailments

All applications as described below can be taken with the surface applicator No. 1.

HEADACHES: Apply to 3-4, 6, 7, 2, 17, 5

INDIGESTION: Apply to 3-4, 25, 2, 5.

CONSTIPATION: Apply to 3-4, 23 and 24.

NERVOUSNESS: Apply to 16 and move slowly up and down entire spine covering 16:17:5-13:12, treat back of head 31:31, treat also 3:4, 23, 22, 21, 28:30, 11:18 19 and 20.

INSOMNIA: Apply to soles of feet 20, over 3-4, 8-9, 2 down to 13.

NEURALGIA OF THE FACE: Apply to 10 (front of ear) and cheeks.

DEAFNESS: Apply to 31 (back of ear) and use electrode No. 11 inside of ear.

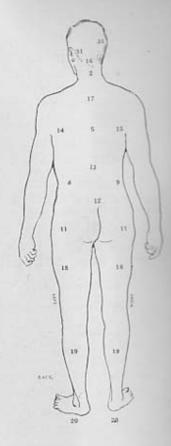
RHEUMATISM: Apply to seat of pain and to 3-4, 8-9.

WEAK LUNGS AND TO DEVELOP CHEST: Apply to location of lungs every day three times for several minutes and from 26-26; breathe deeply during application and inhale ozone through ozone generator

SALLOW COMPLEXION: Improve your digestion by applications to 3-4, also take facial applications.

FALLING HAIR, DANDRUFF, GRAY HAIR AND PREMATURE BALDNESS: Use applicator No. 3 or No. 3a and cover entire scalp during treatment.

HOARSENESS AND TO IMPROVE VOICE: Apply to 23 and entire throat



the current may be increased and a short spark given. Apply at the seat of pain with surface electrode No. 1.

Obesity—Use electrode No. 1 and apply to affected parts and treat consistently. Begin with a medium current and increase to full power. Rigorous diet, exercise and personal hygiene must of course be observed.

Pains—Apply at seat of pain until relieved with current and method to give best results. Use electrode No. 1.

Paralysis—Treat paralyzed muscles, employing a current strong enough to produce a half or three-quarter inch spark. Part of the time keep the applicator in contact with the skin and part of the time raise it above the surface to get the effect of the spark.

Piles-See Hemorrhoids.

Pimples-See Acne.

Poison Ivy—Apply High Frequency lubricant first. Use No. 1 electrode or No. 2 and 2a edgewise so as to cause plenty of sparking over the whole affected area. Lift the applicator here and there and treat with a strong current for from 3 to 5 minutes.

Prostatic Diseases—This most distressing ailment, common to so many men of middle 20

age, is one in which the High Frequency current is almost a specific. The treatment indicated is with the prostatic electrode No. 9.

Pyorrhea—Applications with any suitable dental electrode with a weak or medium current help greatly to re-establish a healthy condition of the gums. A dentist should be consulted. High Frequency treatments promote proper nutritional improvements and in addition to this have antiseptic and antitoxic properties.

Red Nose—Use preferably electrode No. 1a and apply for only short periods, say about 2 minutes, small sparks by holding the electrode edgeways or lifting it somewhat about one-eighth of an inch. The object is to destroy the enlarged veins. The treatment must not be carried too far at one time. It should be repeated as the condition permits. Several days' rest between treatments may sometimes be advisable.

Rheumatism—High Frequency currents are of exceptional value in muscular and in chronic articular rheumatism. The pain will be relieved by application of the surface electrode with massage, using lubricant, if necessary. Follow with fairly strong spark until pronounced redness is produced. This treatment persistently followed has in many cases resulted in a permanent cure. While relief

may be obtained sometimes in one treatment, a permanent cure may require much time and patience.

Ringworm—Use electrode No. 1 and apply short sparks for several minutes two or three imes every other day. A medium current is sufficient. Move the electrode so as to cover the entire affected area.

Scars—If the tissue is hardened or callous its removal may be facilitated by the application of a mild spark through the fulguration electrode No. 20.

Sciatica—Treat with a sharp spark along the course of the sciatic nerve until a redness is produced. Use electrode No. 1 or No. 2.

Skin Diseases—Treat over the affected tissues with the surface electrode held in close contact for from 5 to 15 minutes. Follow by moderate spark 3 to 5 minutes. Treat once daily. If the skin is moist, talcum powder should be used so that electrode will not stick. See also Acne and Eczema.

Sore Feet and Stone Bruises—Applications with any suitable applicator in close contact with the skin bring quick relief. Use High Frequency lubricant and treat for several minutes.

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Sore Throat—Electrode No. 5 is best suited for external throat applications. Hold directly against the skin with fairly strong current. The use of the Ozone Generator No. 28 for several minutes following may also be of benefit.

Sprains—The pain and soreness following a sprain may be alleviated by treatment, first with the surface electrode in contact with the skin and later by a mild spark, gradually increasing in strength until a hyperemia is produced.

Stiffness of Joints and Muscles—This condition is generally due to the over-employment of certain muscles previously little used. The resulting stiffness and soreness may be relieved by the use of the surface electrode, followed by a mild spark.

Tonsilitis-See Sore Throat.

Ulcers—Apply a strong current with No. 2a or No. 2 electrode for 5 minutes in contact, lifting applicator once in a while to produce sparks of at least one-quarter inch. Repeat daily.

Warts and Moles—These disfigurements no matter of how long standing, may be most successfully treated by the application of a spark through the fulguration electrode No. 20. The greatest care must be exercised that these sparks do not come in contact with the surrounding tissues. Permanent results may be expected, and even the most disfiguring warts or moles may be removed without leaving a trace by these means.

Whooping Cough—Apply No. 1 electrode in the same manner as explained under Asthma and use also Ozone Inhalations with the Ozone Generator No. 28.

Writer's Cramp—Treat with gentle spark over the affected fingers and thumb, also massage with surface electrode over palm of the hand.

Wrinkles—Are commonly caused by using a given set of facial muscles more than normally. They can be removed by applying electrode No. 1 right over them with a rotary, massaging movement. High Frequency current revitalizes tired muscles and arrests the blighting marks of time.

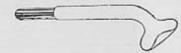
Electrodes and Accessories



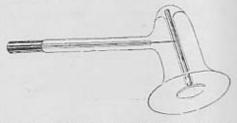
1 Standard Surface, \$1.00.



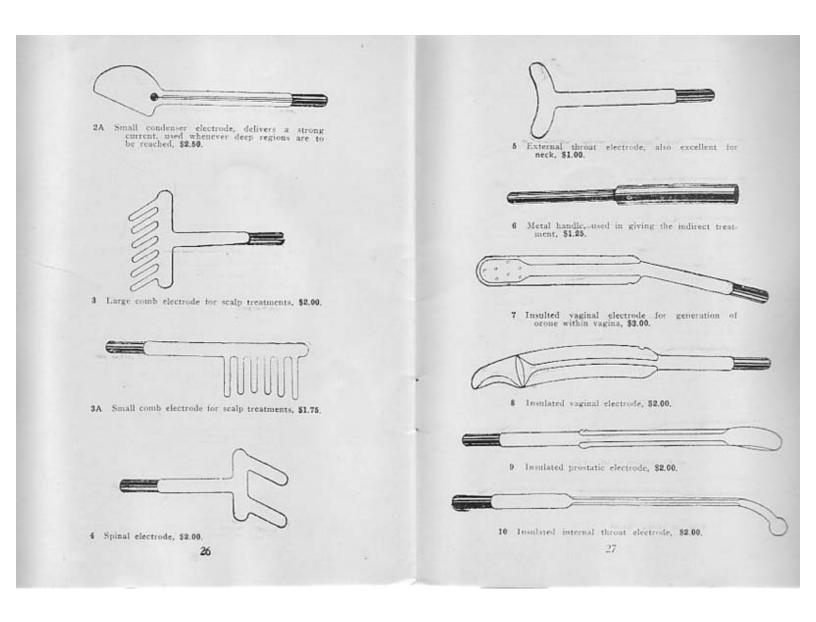
1A Small Surface, \$1.00.

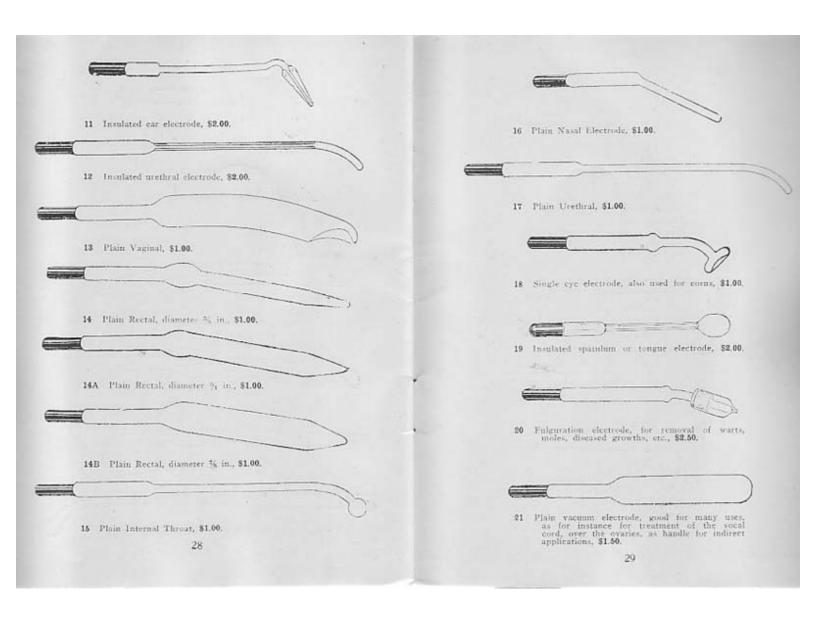


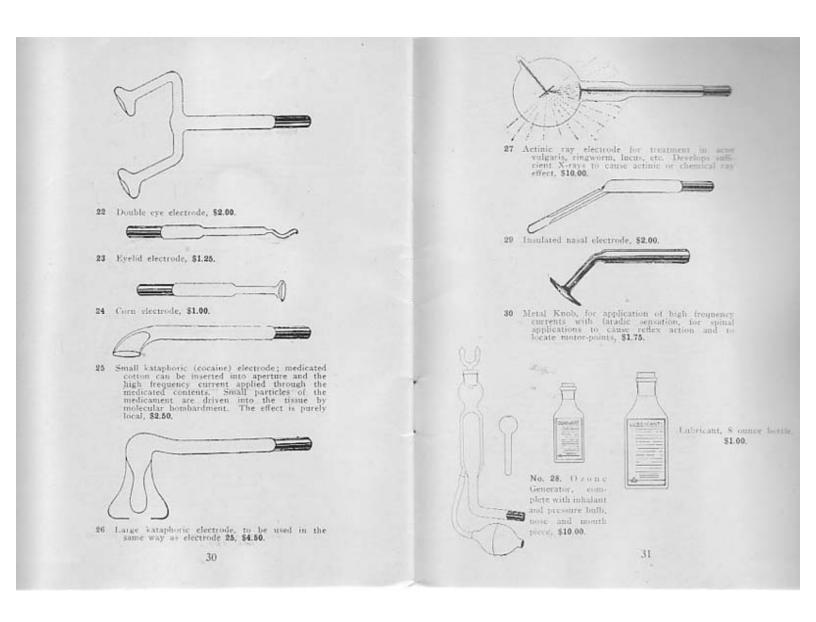
1B Small Surface, hellow shaped, generates ozone within cavity and fits nicely over certain parts as cheek-bones, chin, etc., \$1.00.

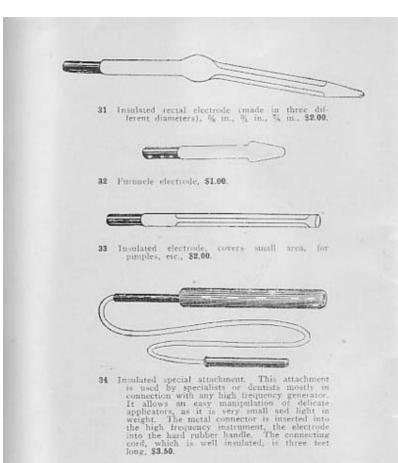


 Large condenser electrode, delivers a very strong current, especially recommended for treating rheumatism, lumbago, etc., \$3.50.









35 Dental electrode straight bulb, \$2.00.

32



36 Dental electrode hollow built, \$2.00.



37 Dental electrode ball shaped bulb. Price \$2.00.



38 Dental kataphoric (cocaine) electrode. Price, \$2.00.



29 Denfal abcess electrode. Price \$2.00.



40 Dental electrode for gum treatments. Price \$2,00.



41 Dental electrode for gum treatments. Price \$2.00.



42 Dental electrode for spotting certain areas. Price \$2.00.



43 Dental electrode for inside of jaw. Price \$2.00.



44 Dental electrode for front gum treatment, Price \$2.00.



45 Dental fulguration electrode. Price \$2.00.



46 Dental electrode for gum treatment inside of jaw. Price \$2.00.



47 Dental electrode for gum treatment left side of jaw. Price \$2.00.



48 Dental electrode for gum treatment right side of jaw. Price \$2.00.

No. 1. "Halliwell" Home Outfit.

A self-contained onepiece Violet Ray machine, simple in construction, easy to operate, designed and improved by the originator of this type of apparatus. This new model presents in all details the most perfect product of its



kind. For alternating and direct current. The Home outfit includes the "Halliwell" Generator, a general applicator, six feet of cord with attachment plug and instruction chart, all contained in an elegant imitation leather
carrying case. Price, formerly \$25.00,
now \$12.50

No. 5. "Halliwell" Home Outfit. A two-piece Violet Ray Machine, for home and professional use. This Violet Ray Generator is the most up-to-date and perfect product of the electrical art. It is very beautifully made up in all details and its construction is entirely different from other instruments. It produces two different kinds of Violet Ray discharges of high and low frequency, an important feature, especially to professional people. The instrument case is finished in light mahogany. A special feature of this Violet Ray machine is its adjustment, a

new mechanism originated by a well-known inventor of many improved Violet Ray products.

The Outfit consists of the "Halliwell" Violet Ray Two-piece Generator in elegant mahogany, 7 feet, silk connecting cord, separable, light-weight and spark-proof handle with 7 feet of spark-proof cord, a general appli-



cator, a comb rake applicator for Scalp Treatments, instruction chart, and a very elegant velvet lined, imitation leather covered carrying case with separate compartments for applicators, which are neatly held in place by special clamps. Price formerly \$35.00 \$45.00, now

1 Function. This is a high voltage and high frequency. machine for nerve ache, . Blood vessels Disease NOT FOR: Serum Romoving Serum, or dead tissues diseases. 2. Structure and functioning This markine is mainly composed of a high frequency the machine and same glass electrodes. (See figure 1).

1. The Principle of the circuit. At the beginning instant, Shaker (K.) in the stationary position (closed) of concerned the coil L's corcuit. When a current passes through L, the produced magnetic force attracts the spring iron plate, Kr open and cut its circuit. At this instant, a new series consist circuit formed, it is composed of coil L, capacitor C, main shaking coil L; and the variable resistance R. This circuit has two voltage (1) from the main sources (2) from the induced emf at L when the carcuit is open. The sum of these 2 voltage, Chargeof capacitor c, at the same time spring iron plate return to the ordiginal position and make spark in the space,

Then the capacitor C discharge, and L, R become a diminished amplitude so shaking. Coil L2 and L1 is for increasing voltage sub-coil, . Le also induced a high voltage, its wave shape in diagram is also a high voltage. I can control the current in L, , and at vary the voltage at the end of Li. indirectly vary De the output at the of voltage at the end 1 high frequency shaking circuit is make up of capacitor and coil to form a periodic weakened circuit. The principle of shaking is as figure 2. P. 5.

From fig 2 when K is closed (In fact from the - - -) the capacitor C is charged as fig 1. When K is closed with concerned with coil L, Capacitor and immediately discharged of through the coil as fig 2. Capacitor ended discharge when the current is maximina when with a current at the coil decreasing, for the inductive effect, espacitor is foret to decharged in the opposite direction to the max voltage Um, as (fig 3) To is because of the capacitor discharge at the opposite direction. As fig 4, Then the capacitor is at charged and finished a period and rice versa and the stamplitude decreasing. (断续器) Bevery time it is contacted, il shake again about 15 ~ 20 times in 50000 sec. il stop about 500 see., it's output and wave shape

is as fig. 3.

Input

Imput

Voltage: 220 V 50 Hs 25 W Output frequency: 150~ 300 KC Output Voltage: 10 KV 30 KV Output current 2 30 mA O Resonance Spark curing method is using high frequency voltage, to inside the tissue there would be no mobile ions produced like a using the De direct current. .. il has no stimulating effects on the sense and motor nerve. During the process, patient may fee feel some hunts, it is because the spark discharge and cause some burning effect and Tanalysis of protein the product of affecting the nerve ends. Devel, patient would feel a light warnith.

It is because the area for curing & became a field of high frequency, the charged particle in the muscle moving with the electric field and heat evolved. 3 high frequency high voltage current can decrease the sense nerve and (植物) excitement of the excitement of the little of the sense nerve and (植物), especially to 植物神经, th can affect the A nerve blood vessel and to decrease blood pressure, Decrease the blood in the head. Make headache or faint, and lear hear some special sound because of the weakness in head), have some good effects. It is also good to the 1-2 period of high blood pressure. The curing method, although use in some local position specific position, it can make the body produce some good effects ---1 The curing method can decrease the

degree of excitement in nerve eystem, and have strong killing pain and at calm down effects. If the caring process taken too long time or current too strong, Dit may make the sense loss . . . it is used in nerve pt pains, and nerve organ P. P. 6) It can control the exciting state in blood vessel, make the mediate sige artery fill with blood, contret contract the skin blood vessels, and then relax. Sometimes after the high frequency and high voltage curring method, the state of filling with blood may last a long Time, i it can improve some I specific blood circulation. i. it is usually used in some when blood vessels have some

functioning troubles, e.g. vein expand curvely,痔核动脉的膜炎, 1) From experiments experiments. Resonance spark electric curing method to CR. S. E. C. M) is good to slow duodenum disease hunts and to a, It can make the (Since from oscilloscope, we can see that there is a periodical discharge from the scensory nerve to the spinal merve these could affect the curing of the hurts and 夜 a) ·: R.S. E.C. M's current have has a suppress effect; these periodical discharge were cut, and change the nutritions condition in those areas, and since R.S.E.C.M have a high temperature and can kill the produce germs.

(RSECOM)同样可起到节段 反射的作用,从远遍病变部位 的相应神经节般時,it can get the similar reflection, When there is headache in the forehead area, we can first in the forehead area, when the vein on the legs or under the waist, we can use REEC around the waist. When artery to AZ &, we can use it in 如交感神经节, @ RSEC can increase the extending power of mucsle, can change the nutritions state, it is good to make the muesle relax and beauty. 4 Usual method of use. O Head,

Chose the hair electrode, use weak voltage and gently move along with the hair. Max time - 10 min. Once a day or two days. 20 × 25 times is one process. (Don't spread 滑石粉 =? powder on the skin with hair). Pla 2. Face. chose the 葬 形 electrode (it can be used at smooth skin). Use low voltage, more steadily from edge of hair to the lower foreheard, and then from the centre of nose to the ears. Max time - 10 min, Once a day or 2 days, 20 ~ 30 times is one process. (Don't spread " 石粉 on the skin of face). Use the electrode like a a cylinder and 3 Eye and face. have a spear sphere at the top. Patient has to close the eyes. Set the eye balls as

the centres, and more along in the radius of 3 ~ 4 mm circles, move gently and we low voltage, time 6 min. Once a day or 2 days, 5 ~ 10 Times in one process.

4. Ear.

Pull the ear to a upper bankward position. Den't make sure no pain is produced to the patient. Then insert the ear electrode carefully insert into the outer ear could large the curing process, the testor must hold the handle firmly and cannot more. Use weak voltage, the time - 8 min. Once a day or 2 days. 20 times is one process.

those Choose the nose electrode and carefully insert into the march carrity about nasal carrity about 1.5 ~ 2.0 mm. Then don't move. Use weak

Votlage. Time 3~5 min., Once 2 days,
12~15 times is one process. (Nose electrode cannot be wrapped with vaseline). In the 付鼻塞区, choose the ear electrode or small eylindral shaped electrode. Hold the electrode over the surface of 付鼻窦 about 3~4 mm., use **** the same voltage, time 3 n's min., Once 2 days, 12 ~ 15 times is one process. choose the small long cylindral shaped or ear electrode, for the upper and lower jaws. man. Don't touch the teeth. First cure one side then the other side. 引耳结石的 discovered, remove it first. Use weak voltage. time about 10 min., Once a day, 15 ~ 20 times is one process

(We may cover the electrode with expose the top of the electrode, that can to be sure it will not touch the teeth). 7. Heard Heart area. Choose 華那 electrode. In the left chest, mover from 每 环. to the edge of ribs (in circular patr tion). or from the breast-bone to 府友 前 线· (Should avoid touching the nipple). use mediate voltage, Time about 12 min., Once a day or 2 days, 15 times is one process. 8. Back. choose 幸 形 electrode for the half of the or the whole area of the back. More from shoulder to the waist, or from spine backbone to @ B夜后线.

share in circular path and use voltage. time about 20 min. Once a day. 6 ~ 15 times is one process. 9. 疮面 or Duodenum hurts. 11 溃疡 D. Choose 幸形 electrode, Move slowly in a 7~ 10 mm radius circult around the area. Then end with a few stimulations over the surface of \$15 to and or Dusdenum hurts. else mediate voltage over the skin near st on. Use werk voltage over to to 10, Time about 12 min. Once a day, 15 ~ 20 times is one process. (引港面 is wrapped with bandage, open it, wrapp it after the process). (B) Cure over the nerve that have connection な to 疹面 其 没 適 nuse the reflection. reaction and change the damaged parts the physical char condition of the damaged parts.

10. BA 30 (may be = uterus) Patient day on the bed with two legs separate, kons knees lie over pillows, Use clean germ-free BA st electrode and wrapping with clean germ-free vaseline, gently insert into PA 16 about 8~ 10 mm. Then stablize the handle on so one side of the te legs of the patient. * Don't let it move. The voltage can make the patient. feel a little warnith. 10 min once. Once a day. 20 times is one process. Patient lie of electrode. Wrapping with clean germ-free vaseline. It Insent into the alimentary chanal about 4 ~ 5 mm.

The voltage used could make the patient feel a little warmth (usually it is given strong voltage). (During the process, patient should try not to chang cough or because it would increase 打"贯"是, the pressure in the at abdomen and make the electrode come out and burn, the patient). Time about 15 min. Once a day or 2 days, 15 ~ 20 times a process. 12. Shoulder, arm and hands. Choose 军形 electrode, more from the shoulder, upper arm to, forearm to the handsper in slow upper path, use mediate voltage. Time about 15 min., Once a day. 15 ~ 20 time is one process. (more over one side and then the other side).

13. legs. choose 幸 形 electrode. Move from buttocks &, thigh and to the toe. or use it in a some particular positions. Slowly more in circular peth. (avoid the reproductive organs), use mediate voltage. Time about 20 min. Once a day or 2 days, 20 times is on process. (to different conditions, we can prolong the time to 30 min) 5. How to use R. S.C. 1) This machine need a 220 V A.C. SOHS. Output voltage 20KV, frequency about 187 KV.

(2) Connect the main o electric power or electric source pshould be in the broke town break (position .

3. Choose the set suitable glass electrode use and alcohol to kill germs and then place it in the handle of electrode. 4. Before curing, spread 漏石物 over the glaces that are going to cure. This can help the friction between skin glass electroide. If there is sweat, remove it 5. Place the electrode in the suitable place of the partient. N.B. make the electrools touch the skin closely, then connect the electric courses. According the doctor the The voltage should radjusted according \$ to the doctor's advice advice with More slowly the sold switch until the patient feel some lettle stimulation 6. If some strong stimulations are required, place on some distance from the point of contact and some spark

would shoot into the carring place. f. After at the process is finished, make the source key pull to the Ety' position. Pull the pole source out and remove the glass electrode. 6. Note the following 1. When electrode is using, don't touch the hand cannot touch the place behind the red line or there will be a shock. 2. During the process, patient could not touch any metallic objects and should remove all the metallic our things. eq. watches, chains... 3. During the process, except the pt patient, don't let any other anybody touch the glass electrode and the patient

The machine's conducting wire should not be touched by anybody. This could avoid discharge. 4. If there is sweat or wet, dry it. and then Patient's hair should not me have any alasholic 生 友水 that can conduct electricity. 5. head, eye and face should not warp with 将 万 物. 五种 the rectum and PAIN. I should warp with vereline. The seg ear and nasal cavily should not warp vaseline. 6. Rectum process, it should first to 董 曜 肠, and make the rectum ampty. 7. To the cavity it should first warp with 18 112 711 some & dubricating substance.

8. If the patient It faint and unconscious during the head process because of too strong voltage. it should st stop immediately and rest for one or two days, and then finish the process. 9. The used electrode can remove from the handle when the correct is cut and the clean with alcohol. Must be made sure that there is no alcohol left in the glass tube and the place contact with metal, and avoid It &: It can be used after the alcohol is dryed. 10. The electrode should not & be boiled in hot water, It can be clean by alcohol. The electrodes used in cavities can be washed by hot water and then washed with adochol.

11. Usually p 15~ 18 is one process time taken is according to different conditions about 5 ~ 10 min. but in caretrés it is about 2 ~ 3 min. 29 12. This intrument should knot be used more than 10 min. . This would shorten the life of the coils one Should let the coil and cool down before reuse. 13. of there is 松本落 in the terring switch, repair it. 14. H When using No 4 electrode. place the electrode in the sto suitable place first and then switche on the machine.

Instructions for the Use of High Frequency Instrument

FIRST—Connect Inlet Cable to the two thin posts on right hand side of box, and turn on current at socket.

SECOND—To use instrument for Violet Ray treatment, connect conducting cord with tube handle and V. R. Electrode that you intend to use, to high post on left hand side of box. Turn switch to post HF and regulate strength of ray on spark gap.

NOTE: ALWAYS turn current off at socket when instrument is not in use. Do NOT have instrument standing on metal table when in use.

Brooklyn Medical Battery and Instrument Co., Inc.

991 Madison Street, Brooklyn, N. Y.



LONG DISTANCE TELEPHONE HARRISON 5490 CABLE ADDRESS

Lindstrom, Smith Compar

WHITE CROSS ELECTRIC VIBRATORS

ELECTRIC SPECIALTIES

REFERENCES:

RATIONAL CITY MANK OF CHICAGO COMMERCIAL ELECTRIC MOTOR MFG. COMPANY METAL SPECIALTY MFD. COMPANY CHICAGO CASE MFG. COMPANY CHICAGO CASE MFG. COMPANY OF COMPANY CHICAGO CASE MFG. COMPANY

218 So WABASH AVENUE

CHICAGO.ILL.Jan. 27, 1912

Mrs. Hester,
Monroe, Ga.

Dear Madam:-

In accordance with your request, we mail you a catalog of our White Cross Electric Vibrators.

You will find, upon reading our catalog, that our Vibrators have been constructed so as to meet the requirements of the medical profession, and at the same time suitable for family use, and that we have succeeded is proved by the multiude of letters of enthusiastic recommendation which we have received.

At the same time prices have been made so low that no one can now afford to be without this marvelous electrical instrument, which is so highly endorsed by the medical profession.

Our wonderful instruments sell regularly for \$15, \$22 50, \$30.00 \$37.50, \$45.00, and \$57.50, but as you will note in the enclosed price list, we are offering them at a special reduced price for a very limited line only. This is merely a price at which we exhect to get the White Cross Electric Vibrato's introduced into every community. It is only an introductory figure, and as so n as the Vibrators are thorughly introduced we will charge the regular price. We know that when we sell one machine that machine will sell others, and that is the reason why we are willing to sacrifice a few do lars on each Vibrator in the beginning.

We want you to read this catalog very carefully. There is a great deal of information which everybody ought to know You know already that it has been demonstrated by physicians that there is hardly a chronic disease that vibration will not benefit You know also, no doubt, that the Beauty Parlors use the Electric Vibrator for treating wrinkles in the face, piffs under the eyes and double chin. They also use them for the scalp and for removing dandruff. Doctors use Vibrators to treat Rheumatism, Lumbage, Backache Headache, Heart Disease and dozens of other allments. They also use them for promoting circulation and for resting nerves.

We hope that you will decide to order one of the Electric Vibrators shown in our catalog. We assure you that they are the very best Vibrators made for home use. The very fact that they cost about one half as much as other high grade Vibrators, must not influence you

into believing that they are cheaper machines. Do not compare our machines with the cheap magnet machines, as our Vibrators have as many advantages over the cheap machines as the sewing machine has over the common needle.

Remember, we fully guarantee our machines, and we could not give a guarantee like we do if they were "cheap" in any way. We simply offer to save you money and give you the best Vibrator made Do you want to save money, or do you want to spend it foolishly for a machine not better than ours but which costs twice as much or on a Toy machine that gives only the pounding stroke?

If you send cash with the order we will send you Clamp #14 for making a Vibrating chair, free, with any Vibrator except#1. This attachment will enable you to transform any chair into a perfect Vibrating Chair, giving you just as good treatment as Vibrating chairs selling from \$75 to \$100. You can have genuine Swedish Movement right in your own home without extra expense, and get the identical treatments that are given to patients in large hospitals and sanitariums.

We send CHARTS AND INSTRUCTIONS WRITTEN BY AN EXPERT, with each machine, so that you can take treatments in your own home.

To prove to those who are not acquainted with our belebrated machines, that the White Cross Electric Vibrator is a much better instrument, and has many advantages over all other Vibrators and for the benefit of those who do not know anything about Vibrators or Electricity, we will willingly and gladly send any one of our Vibrators by express C. O. D., subject to examination and free trial at the express office. We will send you a brand new machine that has never been used, and you can open the box, try it for yourself and feel the wonderful peneurating effects and curative power, just the same as if you came to our factory or any instrument house to select.

On page 28 you will find a list of the diseases that may be treated by Vibration. Read testimonials on pages 55 to 63. Note the advantages ours have over other vibrators as shown on page 52. On page 37 there are suggestions for your guidance in selecting a Vibrator. Read every word about our celebrated patented vibrators, and remember that after we have introduced them in every locality, we will withdraw our special offer and charge the full catalog price for everything. We refer you to page 53 of the catalog for our financial responsibility.

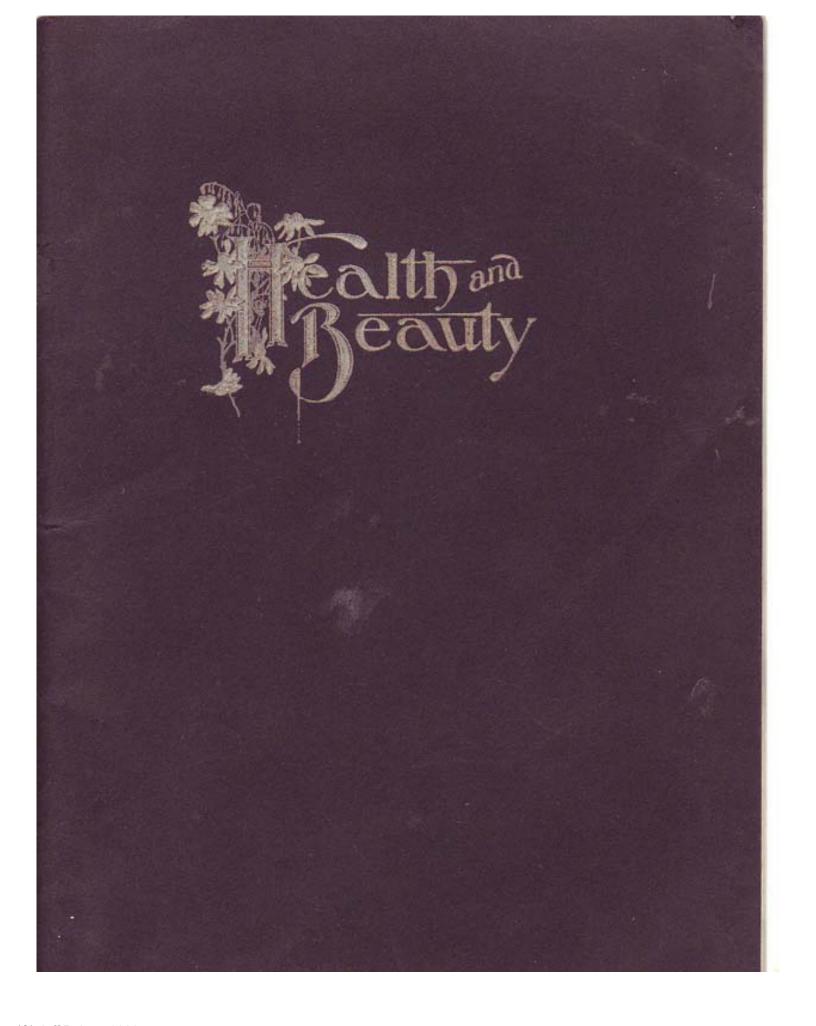
Awaiting your further favor, we are,

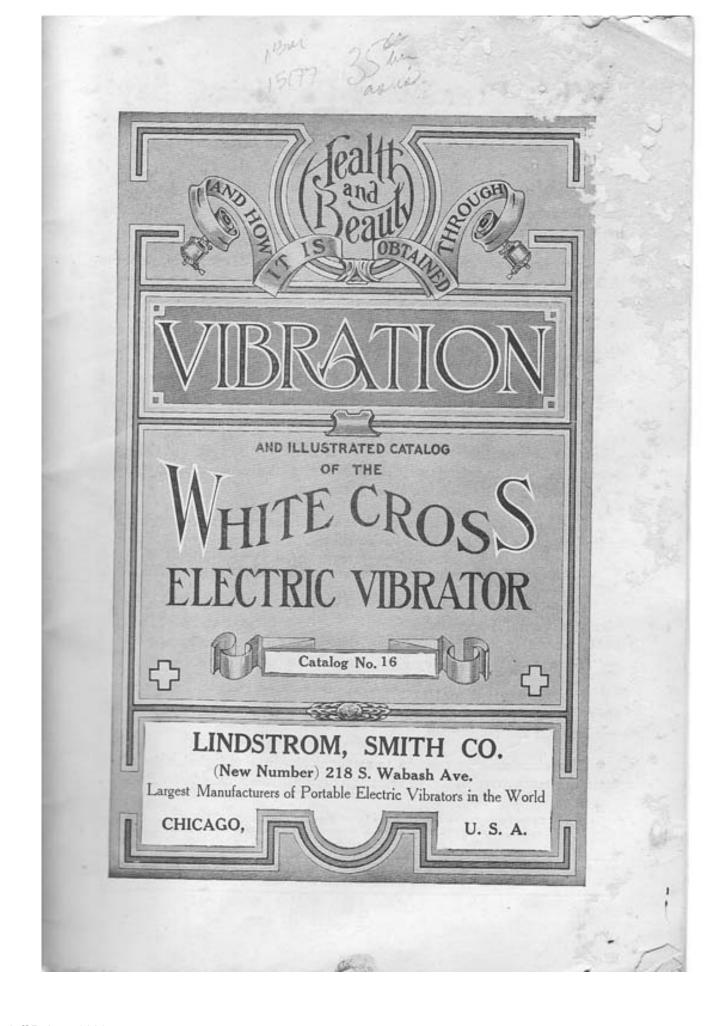
Most sincerely yours,

Dict.

LINDSTROM, SMITH COMPANY

C. V. M. 135.





What Prominent Physicians Say About Vibratory Massage

• Electro-vibratory massage causes absorption by contracting and dilating the capillaries and equalizing the circulation.—Kellogg.

Vibratory massage reduces inflammation, stimulates muscles, removes pain, relieves congestion, and relieves a congested area and starts a general circulation.—Butler, "Internal Medicine."

It is recognized by the medical profession at large that pressure and massage causes absorption.—Osler.

In chronic constipation vibratory massage produces stools in from three to five minutes when used over the ascending transverse colons.—Mathews.

By vibratory massage the number of pulse beats may be regulated, the effect may be permanent, after several treatments the rythm of the heart may be influenced; there is increase of diuresis and diminution of Dyspnœa.

—Journal Amer. Med. Assn., Nov. 1905.

Electro-vibratory massage produces at once the warm, prickling, burning sensation, and the reaction is always pleasant and agreeable.—Herdman.

Take care of your skin. Massage is a wonderful help.—Prof. Hindhede.

Vibration or mechanical massage, as a placebo, is very good; as a stimulant in general I consider it good. The pneumatic vibration of the tympanic membrane has restored good hearing to myself and many others.

—"Massage in Trauma," by Ferd. Engelbrectson.

It is safe to say that at least 95 per cent of cases of constipation, whether they be chronic or acute, will be greatly benefited by vibratory stimulation.

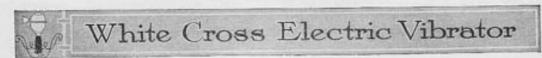
—Benjamin Huston Brown.

The circulation in relation to mechanical vibration includes the effects upon the heart, arteries, blood, veins and capillaries.—M. L. H. Arnold Snow.

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VIBRATING CHAIR

Swedish Movement in Your Own Rocker



Patented March 16, 1909.

It Promotes Circulation and Stimulates
Every Nerve and Muscle from
Head to Foot

Any Chair Can be Made a Vibrating Chair with the White Cross Electric Vibrator in a Minute

History of Vibration



SSAGE is a French word derived from a Greek word, meaning to knead; the Arabic "mass" pressure; Sanskrit "masch," to press, to strike, and is commonly known as meaning friction, rolling, kneading and manipulations performed on the tissues of the body in a variety of ways, with the object of improving the circulation of the blood and general stimulation.

It dates back for centuries and has been practiced by many nationalities in various ways, but until lately has not received the recognition it so richly deserves.

The earliest knowledge of it was probably obtained from the Hindoos and Brahmins and next from the Chinese, and the Greeks followed.

Cong-Fou, hundreds of years before Christ, prescribed a regular system of massage to ward off ailments.

Homer (1000 B. C.) mentions in his writings that rubbing was used for stimulation. The ancient Greeks and Romans used massage in case of illness, to increase activity and as a luxury.

After exercise it was used to relieve pains and to invigorate.

It can be found in the reading of "Vedas" of India. It was practiced in Ancient Egypt and Persia.

Herodotus (484 B. C.) mentions it, saying that friction was good combined with a little pressure.

Hippocrates (450 B. C.) claimed that it was good for constipation and sprains. Socrates and Plato both said that "rubbing can loosen joints" and "moderate rubbing makes parts grow, while hard rubbing binds and too much causes parts to waste."

This should be remembered by those who buy Vibrators.

Galen of Rome (150-200 B. C.) and Asclepiades (100 B. C.) used massage. Celsus believed in it for chronic pains of the head and for invigorating a paralyzed part. Hadrian, Martialis, Pliny and Arrian and Oribasius also believed in massage.

Probably Herodotus was the first to give directions, and thus gave the principles for rational mechanical methods of treatment. He spoke of friction being given, gentle and slow at first, and then with pressure and more rapid.

Hippocrates suggested the "Direction" by saying to rub up, thereby aiding mechanical means and aiding circulation.

Julius Caesar used to have himself pinched regularly, as a treatment for neuralgia.

Galen said friction should be used before exercise to make the parts supple. He even advocated nine different ways of employing massage.

There will be Less Pain when Our Vibrator is Fully Known

(Page 5)



White Cross Electric Vibrator

Arrian advised stretching in connection with massage.

The Greeks used a unique way to obtain Vibration.

They wrapped one end of a saw in cotton cloths and applied it to the body, while with the other end uncovered they would saw a piece of wood, thus obtaining mechanical Vibration.

The Romans used the lash to cure impotence, and the back was rubbed to cure sterility. Ladies allowed themselves to be whipped on the back to cure the same trouble.

Mercurialis in 1573 A. D. published a book treating on movements.

Francis Fuller 1740 A. D. wrote a book speaking of the "Influence of Motion" as a medical aid.

Paullini 1700 A. D. prescribed slapping and flagellation. Massage rollers and muscle beaters were applied in many ways and shapes and were really primitive Vibrators.

In the middle of the 19th century Dr. Zander constructed his mechanical motion instruments, called "Head-Shakes," for neuralgia, etc.

Vigoreaux used a tuning fork in a resounding box to treat locomotor ataxia, etc.

The next step was the invention of mechanical machines for massage.

The first ones could vibrate, shake, roll and cause friction, but due regard to technique is essential to proper massage, both manual and mechanical.

The majority of the machines vibrate the patient en-masse, consequently the next and last need was to introduce a Vibrator apparatus by means of which treatments could be more localized and apparatus better controlled and capable of being applied with greater regard to technique. Then, to make them so light and attractive and at such cost that people generally could have one in each home. This we were finally able to do after years of patient effort.

People of warm countries and cold, barbarous and civilized, have methods of massage, manual and mechanical.

The people of Oceanica strike constantly and softly with the fist, rubbing the palm of the hand and pressing and squeezing the tissues between the fingers and the thumb

This illustrates combination of effects which can be produced with a Vibrator.

The natives when using it for fatigue treat only the arms and legs, but if they use it for pain they treat only the surrounding tissues.

The Sandwich Islanders use a mixture of kneading, squeezing and rubbing called "Lomi-Lomi," and now in later days we have "Vibration and Massage," obtaining our knowledge from the ancients and our ancestors, but with improved methods and of course with more beneficial results.

Some companies have the nerve to offer a Vibrator to the public with only the pounding stroke for medical purposes. If you will read page 7 you will know what is required of a Vibrator for medical purposes.

Vibrate Yourself to Health

(Page 6)

Extracts from

*Mechanical Vibration and its Therapeutic Application

By M. L. H. ARNOLD SNOW, M. D.,

Professor of Mechanical Vibration Therapy in the New York School of Physical Therapeutics; Associate Editor of the Journal of Advanced Therapeutics; Late Assistant in Electro-Therapeutics and Diseases of the Nervous System in the New York Post Graduate Medical School.



HE essential elements of a good machine are as follows: It should be constructed so as not to injure, by soiling or tearing the patient's clothing; the vibrations should be capable of a range from weak to strong and the force of impulse and rate of speed should be under control (the rate ranging as high as 6,500 vibrations per minute) and the stroke should

be adjustable. It should be easily moved about, easily operated and readily adapted to the part to be treated. It should have the least possible frictional wear, and the applicators should be easily adjusted. The apparatus should be so constructed as not to be easily broken or put out of repair. Heavy weight is an objectionable feature."

"The circulation in relation to mechanical vibration includes the effects upon the heart, arteries, blood, veins and capillaries."

"From the effects of vibration applied as a tissue exerciser, it may be inferred that it increases the number of red corpuscles and the haemonglobin. Winternitz has demonstrated that exercise increased the number of red blood corpuscles."

'Nasal catarrh may be favorably affected by vibro-massage applied to the muscles about the nose, eyes and mouth, using vibratory stroking in an outward direction. A vibratory treatment of the neck will also assist the process. An internal nasal treatment is seldom necessary."

"Vibration increases the blood supply to the muscle, renders it firmer, more healthy and more elastic. In cases following injury it rapidly diminishes the tense hardness due to local statis so characteristic of the affected part. After the first treatment properly administered the part treated usually has a feeling of warmth and comfort."

* NOTE—We recommend this book, from which these extracts are taken, to those who are interested in vibratory treatments. It is a very complete work with 295 pages, illustrated.

Our Vibrators are Operated with a High Grade Electric Motor

(Page 7)

White Cross Electric Vibrator

"Vibratory stroking has a soothing effect, and vibratory friction by acting on the nerve of the blood vessels and lymphathics has a marked effect on inflammation. It also helps to give the tired nerves their necessary blood supply."

"Deep interrupted vibration with moderate or deep pressure is stimulating if the application is short, but it is exhausting if too strong or if it be applied too long."

"Mechanical vibration relieves congestion, assists elimination and absorption, and stimulates the functions of the various structures of the eye."

"The eyelids and face may be successfully treated by mechanical vibration. Vibratory stroking is indicated for the relief of paralysis, aedma, and ecchymoses. Twitchings are best treated by direct application over the motor points of the affected muscles."

"Sexual neurasthenia, impotency and prostatitis may also be treated by vibration either alone or in connection with electricity. For the treatment of which employ the rectal vibratode for five minutes or so, using the minimum stroke and a fairly rapid speed, taking care that the treatment be not too prolonged."

"Mechanical vibration is a valuable means for inducing the functional activity and correcting other derangements of digestion."

"Mechanical vibration promotes to a marked degree the functional activity of the liver, stomach and intestines—both promoting absorption and increasing peristaltic activity."

"Mechanical vibration applied to the stomach improves the general tone, increases motor and glandular activity, thereby aiding nutrition."

"Vibration of the abdomen has a curative effect on constipation, assists digestion by increasing the functional activity of the pancreas, liver, stomach, promotes muscular nutrition, increases absorption and renal elimination, strengthens the muscles of the abdomen and increases nervous and circulatory activity, and slows the pulse rate."

Don't Waste Valuable Time and Money on Cheap Imitations

(Page 1)

Vibration and Muscles

From "Lessons in Vibratory Therapeutics"



HE muscles constitute about one-half of the body weight and contain one-quarter of the blood. Not a movement can be executed without some of them being called into activity, and perhaps there is never a time in our life in which some of them are not in action. It is in the muscles that the cap-

illaries give up their nutriment; in them the body heat is generated and maintained; hence their condition is a matter of concern.

The work of muscle is done by alternate contraction and relaxation. As the muscle works more blood is brought to it—the more work the

more blood and also the more waste. This waste consists mostly of carbonic acid. Another waste product is sacro-lactic acid, so that, when working, the normally alkaline reaction of muscle is changed to acid, and if fresh blood is not fully supplied, the muscle is soon fatigued by the increase of the waste.

We have said that muscles are never completely relaxed—they are always more or less on the stretch. This condition of tension, called "tone," is under control of the nervous system, and, if kept up normally, is dependent upon a full supply of blood. Flabby muscles lack tone



Muscles of the Face and Neck

—blood—hence a depressed or paralyzed nervous condition must be present or a low condition of the circulation. Men with such muscles are of sedentary habit—do not exercise. Vibration or massage applied to the muscles of such individuals will speedily restore the lost "tone."

What is the effect of mechanical vibration on the muscles? From experience we have found the effects are similar to, but in some cases more pronounced than, those of massage. I cannot forbear letting Dr. Graham describe those effects. In speaking of muscles he says: "Their

The Best is the Cheapest in the Long Run

(Page 9)



White Cross Electric Vibrator

action presents a great similarity to that of a beating heart, for at every contraction of a muscle, blood is driven out of it, and by this it, at the



First Layer of the Muscles of the Back.

same time, receives an additional impulse in its return to the heart, while at every relaxation the vessels are again allowed to fill. Further, the heart, abundantly supplied with blood for its own nourishment, lasts a lifetime, usually without fatigue, though in constant activity, while voluntary muscles, if allowed to remain inactive, suffer in size and Hence the importance of some strength. measure that will overcome the evils of inactivity, that will at once attract the circulation to the muscles and at the same time aid in its return. This indication is better fulfilled by the intermittent pressure of massage than by any other known remedy; for it makes more blood go through the skin and muscles and consequently less to the brain and spinal

cord and internal organs generally. Fatigue is an indication that waste is greater than repair. Muscular fatigue from over-exertion or want of exercise is relieved by massage, which promotes a more rapid absorption of waste products and stimulates the tardy peripheral circulation upon which weariness to a large extent depends. Fatigue from mental straining is relieved by the same means which increases the area and quantity of the circulation in the external tissues of the body and thus depletes the overfilled cerebral vessels."

Experiments have been made by a German professor upon himself and two others to determine the effects of massage on a healthy subject. In each case the muscular strength increased and all the bodily functions were performed in a more perfect manner. This coincides with our own experience when treating



Muscles of the Leg



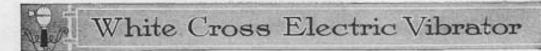
PHOTOGRAPH OF OUR BOOTH

At the Chicago Electrical Show



ELECTRICITY AND VIBRATION.

"Suffering humanity or those suffering with ailments that are curable by vibration and electricity, will find much to interest them at the booth where the White Cross Electric Vibrators are displayed, at the south end of the main hall. This Vibrator is the medium through which health and beauty may be obtained, and it is suitable for face, scalp and body massage. The Electric Vibrator is made by the Lindstrom, Smith Company of this city, and their advice is not to pour drugs into your stomach for a pain in the neck, arm, leg or back, for, they say, 'the pain is not there.' As most diseases are caused by congestion, and as vibration will remove congestion quicker than anything else, there is nothing wonderful to me in the fact that the White Cross Electric Vibrator is popular, not only in this community, but elsewhere. The Vibrator I speak of is no respector of persons, for it can be attached to any chair and every member of the household can receive the benefits of Vibration and Electricity, the best natural remedies known to science. When I stopped in front of this booth one of the attendants ran a Vibrator over my right shoulder, which was humping itself with rheumatic pains at that particular moment. The sensation of the Vibrator was like pouring oil on troubled waters. As I am not in the business of giving personal testimonials, I cannot say that I shall always have a kindly recollection of the third annual electric show just on account of that brief session with the Electric Vibrator, and its soothing touch was on the surface of a thick overcoat at that. But if I was in the business of giving testimonials, that is what I would say, and swear to it if necessary, writes Ralph Waldo in an account of his visit to the Electrical Show.—Reprint from the Inter-Ocean.



There will be Less Pain

When the people are educated to know the full value of the Electric Vibrator. The X-Ray is a wonderful invention and has benefited thousands; The Finsen Light is a great discovery and is working wonders, but the Electrical Vibrator has done more than all other inventions combined in relieving pain and building up the system. This benefit will be multiplied many times with our machine, as it is now possible for every individual to use one in his own home. Everyone who can read will be able to get full benefit of the machine with the aid of our Chart and Directions.

The machine itself is so simple that a child can operate it.

Thousands of Electric Vibrators have been sold in well-to-do families for medical purposes and have accomplished great results, while thousands, for lack of money, have had to unnecessarily suffer from Rheumatism, Catarrh, Headache, Neuralgia, etc., etc. Our complete line and low prices enable everybody to buy a vibrator, whether they have the electricity in the house or not.

A Vibrating Chair in every home is now possible with our machine. We make an attachment clamp to hold the vibrator and this clamp can be fastened to any chair by anyone in a minute. The Vibrating Chair is the finest thing out for general stimulation and that tired jeeling as well as for treatment of the back, shoulder and neck.

THE ADVANTAGES OF OUR VIBRATORS ARE:

1st-The vibrations are strong enough to stimulate, but not strong enough to do any harm.

2nd—Any amount of pressure does not stop the vibrator, hence you can reach locally any point deeply situated in the tissues.

3rd—For these reasons our machine can be operated without fear of injury by a child, and will do as much good as the most expensive vibrators.

Our vibrator will not cure any incurable disease, it will not cure any disease that requires other means for treatment, but it will do as much as any other vibrator will do, it will stimulate the tissues that are worked upon, and for that reason it will assist in relieving any disease where a local stimulation is required.

The disturbing factors in any disease arc.

- I. Pain, II. Stiffness, III. Weakness.
- I. Pain is produced by pressure upon the nerves. This is caused by different materials which are not carried off, but are crowded in the tissue and acting as poisons, or by direct pressure upon the nerves connected with the seat of the pain. Stimulation by vibration will cause these poisons to be carried off and disposed of, hence, if all mechanical pressure is removed, relieve pain without poisoning the body with opiates. This pain means any pain in any part of the body. The name doer not change it, whether it is called headache, migraine, intercostal neuralgia, any other neuralgia, or sciatica, gastralgia, myalgia or rheumatism, vibration has been employed with great success in its treatment.
- II. Stiffness in muscles or joints, lame back or any stiffness is produced by injury, overwork or exposure to cold. But in any case it is a hardening of the tissues produced by the irritation of poisons or mineral salts that are crowded in the tissues. The vibration, if properly done, will cause this to be removed and thus soften the tissues and the stiffness will be relieved.
- III. Weakness in any part of the body depends on too little blood reaching the part afflicted. Vibration will cause the blood to go to the part which is treated, and if treatment is kept up the weakness should give place to strength. (Constipation is a weakness of the bowels and may be relieved by vibration.)

Insomnia is too much blood in the head. Vibration will draw it elsewhere, and the patient goes to sleep.

Swedish Movement in Your Own Rocker

Lindstrom, Smith



Priscilla's Dressing Table

Beauty for All

BY ANNETTE BEACON

(Reprinted from the Modern Priscilla, November, 1911.)

DID I hear you say you had given up trying to be pretty? Why so, Miss Disconsolate? Because your eyes are dull, your skin rough and yellow and dotted with pimples and blackheads? That is a formidable list of beauty drawbacks, but if you will promise to give me your undivided attention I will tell you a way to gain the clear skin, glowing with the rosy hue of health, the lustrous eyes, the rosy lips and the contented mind that renders the woman who possesses these attractions beautiful to her friends, her family, and herself. Are you all interested? If not, I know you will be before I have talked many minutes.

Here's the secret, maids and matrons—use vibration! Yes, I know you are all surprised, but to use

vibration, will in my opinion, put you on that short and narrow path which leads to beautyland. Will you take it? If you are a sensible woman you will. Vibration is so casy to employ, so wonderfully effective, so unexcelled in bringing quick beauty returns that it is a wonder to me that more women do not possess that marvelous little instrument-a vibrator.

Why wander wearily along, with your beauty goal many months away, when by employing vibration you can overcome such defects as a flat bos-

om, a wrinkled skin, hollow cheeks, a double chin, scanty hair, and a host of other beauty ailments, in no time at all, comparatively speaking. A daily treatment from a vibrator will develop your physical and mental energy in a large degree, thus enabling you to go about your daily duties or pleasures wholeheartedly. Vibration is decidedly worth while. Don't you think it would be a wise idea to abandon your pet beauty methods for a time and give vibration a chance to make you young and beautiful? Once you acquire the vibrator habit you will become an enthusiast, I know.

"Exactly what is vibration?" some one asks. That is a very pertinent question. To be explicit, vibration is an electrical kneading and stroking of the flesh. As a result the circulation is stimulated, contracted muscles relaxed, flabby muscular walls toned up, and the tissues restored to a normal condition. Just think of that, you beauty devotees!

If you are the little maid with pallid cheeks who likes them not, avail yourself of vibration. It will send the sluggish blood coursing through your veins, racing to all parts of your system. After two or three brief treatments you will have the exquisite joy of seeing your cheeks one flame of searlet.

Should your pores be by vibration.

VIBRATION GIVES QUICE BRAUTY REPURSE

torpid and filled with those little dark specks called blackheads, you cannot do better than to run a vibrator hither and thither over your face for ten minutes daily. until your skin is painted a deep red and the lazy pores are working overtime, as it were, setting their houses in order. Blackheads cannot exist where the pores are stimulated to do their duty

Before applying the vibrator to your face, it would be well to cover the skin with my special

ribrator cream, as it is of great assistance in this work of freeing the porcs from their unsightly

It is most distressing to a woman to have her face or body dotted with pimples, consequently those so afflicted should fly to vibration as a means of delivery from their beauty trouble. In what way does vibration improve the condition of a pimply skin? It causes the blood to circulate rapidly, thus carrying off poisonous deposits; and applied to the stomach, hips, back and breast, will be the means of relieving constipation, which is the chief cause of blotchy, unsightly skins. This

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White Cross Electric Vibrator

should be good news to those of my readers who are so unfortunate as to have the beauty of their skins marred by ugly eruptions.

If your chin looks like a pudding, and you have tried many methods of banishing this unwanted flesh without success attending your efforts, forsake old beauty aids for the nonce and give vibration a trial. The results will astonish you. Before beginning this vibration treatment the chin should be wrapped in hot, wet cloths for several minutes, then a greaseless cream should be rubbed in, after which the ball applicator is passed heavily over the flesh, starting at the tip of the chin and moving downward to the collar bone. The entire treatment with the vibrator should not extend over ten minutes. This is a simple way of breaking down the fatty tissues underneath the chin and one that should appeal to the woman who has no time for lengthy, expensive beauty treat-

This same treatment can be given to other fleshy parts of the body and with equally good results, so you see you have no excuse for tolerating puffy checks or a pudgy nose or unwieldy hips. After the fat has been dispersed by the magic of vibration, you must take immediate measures to tighten the relaxed skin. This is accomplished by bathing the skin with some good astringent. Such a one is given below, and I advise you to make up a huge bottleful if you contemplate any reduction treatment whatever, else you will rue the day.

Liquid Skin Tightener.

Tincture of benzoin.	15 drops
Hamamelis water,	15 drops
Orange-flower water,	1 ounce

Care must be taken not to overdo when employing vibration. At no time should the face be vibrated for more than five minutes daily, when the purpose is to build up the tissues and restore tone to sagging muscles. Should you, however, be desirous of reducing the flesh—as in the reduction treatment just given for overfat chin—double the amount of vibration is needed and it is also essential to bear down heavily upon the instrument.

And now I must tell you exactly how vibration is used when it is intended to act as a wrinkle remover. First, of course, the face and neck are cleansed thoroughly with hot water and the Egyptian substitute for soap, then, after they have been thoroughly rinsed in lukewarm water, a tissue builder is rubbed into the face and neck and shoulders. You now apply the vibrator delicately to the various wrinkles, bearing down very lightly indeed and remembering to move it in small circles across the unbeautiful furrows. It won't be many seconds before blood will be coursing madly through disused channels, and the skin will glow with health and vitality. This is the way to fill out hollow checks, sunken temples and wrinkles. Easy isn't it?

There is no longer any need to worry when the hair grows scanty or dull-hued, as vibration has been proved to be invaluable for stimulating a healthy growth of hair. It is much more effective than finger massage and does not call for such an expenditure of time and strength. Massage with a good electric vibrator is a million times better than massage with the hands, for it is much more powerful. Vibration brings the blood to the scalp and once you succeed in doing this, your hair troubles are over for good and all. A daily treatment with the vibrator will soon result in a new crop of hair-and there are other benefits the scalp derives from vibration. It will, if employed correctly, remove dandruff, and by bringing the oil duets into a normal condition prevents the hair from becoming unpleasantly dry or excessively oily. This is a boon indeed, as I think you will

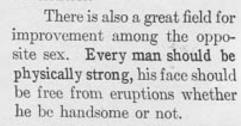
Best of all, or at least some of you will think, vibration brings about a speedy development of the bust. There is no excuse for being flat-chested in this year of nineteen hundred and eleven.

Instead of investing in nerve tonics and flesh foods, hie you away and buy a vibrator. They are comparatively inexpensive, easy to use, and no woman need fear to lose her good looks who possesses one of these beauty-giving instruments.

Beauty

To be beautiful one must be healthy. There is nothing which so influences one for good as the magnetic charm of beauty, and the acquisition of this power is an art which every woman can acquire if she will improve the gifts Dame Nature has bestowed upon her. She may become beautiful, queenly and beloved if she will cultivate the personal charms she

possesses, carefully correcting all deficiencies.



A great many men as well as women have realized this fact and make frequent visits to beauty parlors at great expense, as it is as essential in business as in society to have a pleasing personality. Clerks as well as bankers and business men can now obtain these same results at home, with an immense saving of expense and time. Women

can accomplish the same results in their own boudoir.

Better still, farmers, their wives and children, who never dreamed that they could enjoy these professional treatments, so expensive even for city residents, can now, at a very slight cost, have the same advantages right at home, whether they have the electricity in the house or not.

It is indeed painful to a woman whose mirror and too candid friends tell her that she is lacking in outward beauty, but she needs this rude awakening that she may enhance those physical gifts of which she is possessed, and may become a happier, wiser and more attractive woman.

Have a Beauty Parlor in Your Own Room

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White Cross Electric Vibrator

The day is past when woman thought she must remain plain and unlovely if it was her misfortune to be so.

Today beauty is as much a science as any other branch of research. She who scientifically cultivates the beauties of her body has a loveliness which will endure the test of time.

As a lifetime of conscientious work is required to become a scholar, an artist or a musician, so also to attain perfect loveliness it will require earnest endeavor and close attention.

Vibratory massage is one of the greatest agents in the pursuit of beauty. but should be properly employed. Directions for proper use should accompany every good Vibrator. This is the case with our Vibrators.

At a great expense we secured the services of a noted specialist on vibration, and with every machine we send a copy of his celebrated directions and charts for using our Vibrators.

Not every one can become a celebrated beauty, but every woman of intelligence may, by the use of Vibration and Electricity, become graceful, strong and healthy, and enhance the gifts of Nature until she becomes pleasing to all who know her.

An intellectual woman is the woman of today. Vibratory treatment gives to her an added charm and a bulwark against disease, for it is an established fact that disease attacks the most vulnerable point, and that an organ grows stronger through vibration. The standard point is an established fact that disease attacks the most shoulders no agency has ever been discovered which is effectual as vibration. It is common sense treatment, because anyone can see the reason why it aids. Consequently when a part of the body is not pluing enough use the vibrator and you bring the blood which is filled with the right kind of food to the right spot. reaction calls the blood to the surface.



FOR DEVELOPING.

The skin glows with health and vitality. You court the delightful treatments and depart with difficulty from this paradise. You then retire for the night to enjoy blissful slumber, or, if the treatment is taken during the day, walk forth a rejuvenated person, a king, queen, a monarch of your inner world. You enjoy all the freshness of regenerated life, and you echo the sentence: "Blessed be he who invented Vibrators."

Our Vibrators will Chase those Wrinkles and Blackheads Away

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Hair Dressers, Beauty Parlors and Barbers use Electric Vibrators

For stimulating healthy growth of the hair vibration has long proved to be the leading agent. Long before the vibrator was invented people aided the growth of the hair by rubbing with the fingers. Every scalp scientist admits that nothing is better for the scalp than massage. And



massage with an electric vibrator, as you know, is many times better than massage with the hands, for it is more powerful. The vibrator brings the blood to the scalp. and the blood brings the food that is necessary for the hair. A woman who uses a White Cross Electric Vibrator for a few minutes now and then may be reasonably sure of a strong, healthy growth of hair.

Every profession has taken advantage of this great stimulating agent. Everybody knows that all first-class barber shops, hairdressers and beauty shops are now using one or more vibrators for giving scalp and facial treatment. They have probably

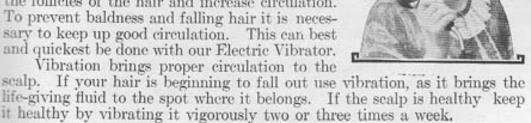
paid from \$50 to \$150 for their machines, but are not able to give as beneficial treatment as can be obtained by the White Cross Electric Vibrator in your home, with the aid of our directions.

With thousands of vibrations per minute it is easily seen how our

vibrator can stimulate and develop every nerve and muscle of the face. It will help to increase blood circulation and clean the pores of the skin. This treatment, if kept up, will help remove wrinkles and blackheads and make a beautiful complexion. The facial treatment should be taken very mild.

Applied to the scalp it will clean it thoroughly, remove dandruff, exercise and nourish the follicles of the hair and increase circulation. To prevent baldness and falling hair it is necessary to keep up good circulation. This can best

and quickest be done with our Electric Vibrator. Vibration brings proper circulation to the scalp. If your hair is beginning to fall out use vibration, as it brings the life-giving fluid to the spot where it belongs. If the scalp is healthy keep



What the Vibrator has Done for Others it may Do for You

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White Cross Electric Vibrator

Vibration is the Natural Foe of Disease

DISEASE is against nature. The normal, natural state of man is health—good, strong, robust health. Disease creeps in only when there is not sufficient vigor and strength to resist it. Vigor and strength means, as we have explained on another page of this catalog, the amount of vibra-



FACIAL TREATMENT.

There is nothing that will keep the akin in such healthy condition as vibration. That is why all first-class beauty pariors use vibration.

tion there is in the human system. Some human bodies have more power of vibration than others. These bodies are in every instance strong, powerful and healthy bodies. The deduction of scientists, therefore, is that vibration is the most natural foc of disease.

We have given you in this book the most indisputable evidence that vibration has been of great benefit to many sufferers. More than likely it has benefited the very disease with which you are afflicted or corrected the very ailment from which you are suffering. Therefore, is it not reason-

able for us to ask you to at least investigate and try one of our Vibrators. Should you refuse such a trial? The very fact that we hold out hope to you, no matter what may be your ailment, should be sufficient.

Without health no one can have beauty.

Without both beauty and health life is nearly miserable. Without good digestion and active stomach you cannot have health nor beauty.

If your health is bad your complexion is bad, your skin is dry and full

of blackheads or pimples.

But you are not too sick to get well. Never think that. Never say it. Never give up to any such thoughts. Since vibration is one of the sources of health do not rest until you have tried vibration in your own case. Remember it is a remedy which has been used for thousands of years in different forms—and surely if there was no efficacy in vibration it would not have withstood the test of literally thousands of years. Instead of having been discarded, improvements have been made steadily until now our Combination vibrators form the acme, the very highest pinnacle, of all forms of vibration.

Therefore we say, in all sincerity, do not despair. There is a way, somehow, to treat your case in some way and we believe that vibration is the way. Try our Vibrators with the use of our charts and directions and you will be convinced.

Our Vibrators are recognized by the medical profession and experts as being true Massage Vibrators, with which one can give professional treatment without injury.

Remember, Our Electric Vibrator is fully guaranteed



Electric Treatment

HAS proved of great value and has benefited a good many diseases, and for this reason we have designed some of our Vibrators so that they also give Electricity. Every first-class physician has an electric battery, and we sell a good many of ours to doctors and sanitariums for giving Electric Treatments as well as Vibration.

The illustration shows how the Galvanic current can be applied to the head. It can also be applied to the eyes, ears or any part of the body. This is a mild flowing current. It does not give any undesirable shocks. Our outfits are made so that the current can be interrupted by the operator at will. The peculiarity of the Galvanic current enables one to test it in the mouth when it is applied to the head and face, and when it is interrupted there appears a little



Showing how Galvanic Electric Treatment is taken with Nos. 4, 8 and 18 Outfile.

lightning to the eyes. Our machines give a true Galvanic current. Vibrators Nos. 8 and 18, give also both the Galvanic and Faradic electricity.

Electricity has been much misrepresented for years by so-called electric belts, which have to be dipped in vinegar and which unscrupulous firms have advertised heavily and imposed on ignorant people. Even large mail order houses are still selling these belts for \$10.00 to \$30.00. They know that they are worthless, but they are after the money. We are delighted to see that some of the Health Journals, among which is the Physical Culture (see July, 1907, number, pages 4 and 5), ARE NOW EXPOSING THIS FRAUD, which has robbed the people of millions of dollars every year. The current of the electric belt lasts but a few seconds and does no good. It is like giving a thirsty man but a single drop of water.

You have never seen a respectable physician use an electric belt in his office or even recommend it to his patient, but you see thousands who use both electric batteries and vibrators. You have never seen a book which was intended to be sold to physicians that endorsed electric belts, but we have four large books on Vibration listed in this catalog which have been published to sell to physicians only, but which we or any medical book

store will sell you on receipt of the price.

The Faradic current is really a massage to the nerves and muscles of the body, but in order to do any good the Faradic coil has to be made on a scientific principle and wound with very fine long insulated wire in order to give a high voltage and best medical results. Cheap electric medical batteries are of no medical value and you never see a physician use them, as he knows better.

Our Combination Outfits gives both Vibration and Electricity



White Cross Electric Vibrator

Medicine vs. Vibration.

IN many cases where medicine will in any way benefit a patient, as for instance in rheumatism, the medicine is generally so strong that it will ruin the stomach. The same may be said of medicine in blood affections, etc. Some of the medicines will even destroy the bones and do great damage to the system in general. In using our Electric Vibrator you cannot possibly do any harm, as is the case with medicine. You can even apply vibration with your clothing on, if you prefer, and direct to the diseased portion of the body, nerves and muscles.

Our patented Electric Vibrator is capable of producing an extensive range of vibratory movement, and this movement is always directed toward one purpose—the driving out of any disease which may be in the human

body.

There is no guess work, no wondering, and no fear, as there is about drugs. Once the correct vibratory impulse is found, relief is the result, for a change takes place in the tissues; a change must take place there, and

furthermore, this change must be in the direction of that normal painless vibratory condition known as the state of health.

The White Cross Electric Vibrator is always ready for use and within the control of the patient himself. The price is very reasonable; it costs practically nothing to maintain it, and with ordinary care will last for years.

There are vibrators costing from ordinary bath tob and vibration used at the same time through \$50.00 to \$150.00, but not one of



It is really a family necessity. Combination electric bath and vibration.

the expensive machines can do anything additional or superior to our patented Electric Vibrator. Many that cost three or four times as much as ours are not near as complete a therapeutic agent, and many of them are so heavy and bulky that a delicate woman cannot use them. Ours are very compact and easily handled.

In capacity for generating a wide range of vibratory movement it yields to none. You only turn a switch to put the machine in operation, and you can regulate it to give from one thousand to many thousand

vibrations per minute.

Used in the best Hospitals.

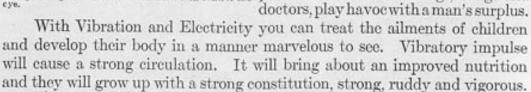
With our Vibrator Combination No. 8 and No. 18 and with a Vibrating Chair that you are able to make, you will practically have a small Sanitarium in your own home. You never need to be afraid of either the electricity or vibration, as they never do you any harm. They all can be used for

home treatment and handled by those unfamiliar with instruments.

With our patented Electric Vibrator in the home the family is equipped with an outfit that is equal to the best instrument used by a good many Physicians, Sanitariums and Hospitals all over the world.

Medicine for a sore throat cannot be used for another purpose, for instance on a rheumatic joint, nor for facial or scalp treatment, but the White Cross Electric Vibrator may be employed in a dozen different cases with the most brilliant results.

When you depend on the old drug Vibratory eye treatments are now given by many of the best known occulists. There are many who are now wearing glasses that would find relief in vibration by pocket. Doctors and drugs, drugs and strengthening the nerves and muscles which control the



The same daily vibration over all or special portions of the patient will

serve to banish fatigue of the wife, mother or housekeeper, overcome her special ills and aches, efface wrinkles of care, worry, age or disease and preserve a superb complexion.

EYE TREATMENT.

The daily treatment from the vibrator will develop the physical and mental energy of the growing boys and girls. It affords a safeguard against special dangers of this period of life. It tones the whole system, and by its use many a fever or decline may be escaped or averted.

The daily vibration with our machine will give the man of the house more enduring strength and a greater



For stimulating healthy would be the hair vibra-tion has long proved to be the leading agent. Long before the vibrator was invented people aided the growth of the hair by rubbing with the fingers. Every scalp scientist admits that nothing is better for the scalp than massage.

mental range. It will enable him to do the same work with less effort or more work with same effort.

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The vibration method of treatment is marvelously invigorating. Numerous experiments have shown that a few minutes of vibratory massage is equal to several hours of sleep in overcoming fatigue.

Vibration being a natural, physiological treatment is not limited by age or sex. It is equally effective for young and old. It is the all round, ever ready, dependable family aid.

The purchase of a Vibrator is within the reach of everyone, because of



TREATING THE ANKLE.

For tired and swoffen nukles and feet there is nothing better than vibration.

its reasonable price, but it is a purchase that no man can afford to neglect. It is the one thing by means of which he can treat headaches, sore throats and common household troubles, which present themselves daily and are so liable to develop into serious diseases if allowed to go unchecked.

It is harmless to the most delicate invalid or child. Its effects are certain and as natural as sleep, if used according to our chart and directions. Those who have used the Vibrator and who know what it

will do are the people who are loudest in its praises.

Self interest, your health, your peace of body and mind, the hopelessness of your disease after it gets beyond the aid of drugs, all these considerations demand that you shall lose no time in securing and actively employing this wonderful invention which comes to you with the endorsement of many prominent professional men, Medical, Health and Electrical Journals and recommendations of actual results achieved when other means of treatment have hopelessly failed.

We cordially invite those living in Chicago or within easy distance of the city to call at our offices and have the Electric Vibrator demonstrated to them in person.

If you do not find your ailments mentioned in this book, please describe your case plainly and we will have our physicians advise you on same, free of charge.

Our Vibrators Are Fully Guaranteed

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Babies and Children are Benefited by Vibration

IN these days when mothers are making it more of a Scientific Study to have healthy, strong and beautiful babies, Vibration is found to be a great blessing in relieving pain and promote circulation without poisonous drugs and medicines. The Vibration in the White Cross Electric Vibrator can be regulated to be so mild that it is suitable for the most delicate babies.

When the baby is cross from colic etc., it is no longer necessary to experiment with soothing syrups, paregoric, castor oils, etc.. for Vibration often will relieve the pain in a few minutes. Instead of spoiling the baby's stomach it can be made strong and healthy through this natural remedy.

Many innocent children are born with hereditary diseases and are suffering a good deal of pain because of this. Young mothers in their innocence fill the baby's stomach with all sorts of poisonous drugs in order to relieve them, and while they seem to be successful in some cases, they often ruin the stomach of the little one and some times it takes years to repair what a few doses of paregoric and other strong drugs have damaged. Mild vibration can never do any harm, and it is always beneficial. This, any one can confirm by rubbing their hands over the stomach when in pain. If the bare hand can accomplish this by rubbing, what will not our Electric Vibrator be able to do, with the thousands of rubbings and soothing vibrations per minute, for the aching and crying baby?

What the helpless little baby, which lays in the cradle, needs, is more excercise to promote better circulation. Often when a baby is crying from colic and pain, it is



The Baby Smiles at Vibration It relieves colic and pains in the stomach

relieved by lifting it up and carrying it around. This shows that it is benefited by exercise. The White Cross Electric Vibrator not only can be used for applying it direct to the body, but it can also be attached to the cradle like it is attached to a chair, and the cradle be made a VIBRATING CRADLE.*

[&]quot;This is one of the easiest ways to give exercise to the little one. It will often help to put a child asleep in a few minutes. Remember no other vibrator can do this. Our vibrator is the only one that can be attached to the cradle, or to the bed, and this invention is fully protected by patents.

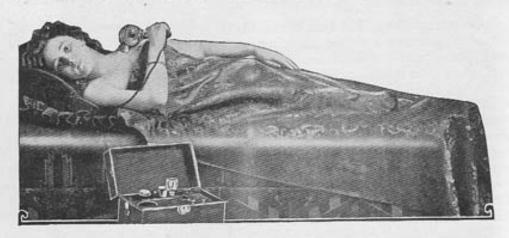


Farmers

Know what it means to be sick, ailing or in pain and to be miles away

from a town, a physician and even a friend or neighbor.

The telephone has proved a great boon to them and brought them closer in touch. They are learning the value of electricity for personal use. No doubt they often envied the city people when reading of the X-Ray, Violet Ray and Electric Treatments, Massage, Vibration, etc. Even though feeling able to pay for such treatment, when they figured the cost of railroad fare, hotels and the loss of time from their farm and fireside it appalled them, and they dismissed it from their calculations and only dreamed of it. It need be a dream no longer. With our instruments, ranging from the plain Vibrator to the combination outfit, giving both vibration and electricity, they can obtain the same benefits which are



enjoyed by city people no matter whether having electricity in the house or not.

After a long summer's work he is naturally anxious to rest and overlooks the fact that by a sudden ceasing of exercise he will become musclebound. Rheumatism and pains will appear, the stomach becomes disarranged and he is more apt to contract illness and disease. This is where Vibration and Massage is a blessing to a home.

It relieves pain, increases circulation of the blood and wards off diseases.

A farmer's wife who once has a good Vibrator will never be without it for

treating her aching back.

Besides all this, she and her daughters can take beauty treatments just the same as her more fortunate sister in the city, and during the winter months she can recuperate on her looks, coming out in the spring like the flowers do, fresh, sweet and pretty, and ready and willing for another year's work for home, husband and children.

That Vibrating Chair is certainly good for Circulation

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Cause of Deafness



NETY per cent of all cases of deafness are caused by an inflammation and congestion of the mucous membrane lining the nose, throat and middle ear, known as catarrh. A cold, cough, sore throat, la grippe, all have a tendency to bring on this in-

flamed condition. As the mucous membrane lining the throat is con-

tinuous with that of the upper pharynx and eustachian tube, the inflammation quickly extends to the middle ear, causing a congestion of the ossicles and a gradual closing of the eustachian tube.

The first warning symptoms of approaching deafness are a slight ringing or hissing sound in one or both ears, while sometimes a peculiar thumping sensation is experienced with each pulsation of the heart. The eustachian



Ear and Tympanum

tube is a pipe leading from the throat to the cavity of the middle ear. Its function is to fill the cavity with air at atmospheric pressure so that the pressure may be exactly the same at the front and back of the ear drum. The organ is thus maintained in perfect equilibrium and is entirely free to vibrate in and out when the sound waves impinge upon it.

Mechanical vibration often relieves the sufferer. Vibration of a decided nature, such as is given by the White Cross Vibrator, will often loosen the parts and bring back proper circulation throughout the hearing organ.

By means of our Ear Applicator we remove the external air pressure. By starting the Vibrator we create a very rapid suction effect which draws the ear drum and the attached ossicles back and forth the slightest fraction of an inch many thousand times a minute, and nothing is inserted in the ear which might injure its sensitiveness. This exercise, given to the ear at your home twice daily for a couple of minutes, often breaks up the ankylosed condition of the congested ossicles just as a rusty hinge is made to move easily by working it back and forth.

At the same time the thickened ear drum is exercised and the congested blood vessels of the ear acted upon, so that the healthy blood is forced through the partially dead membrane, and the thickened, dead portion of the ear drum, which keeps it from vibrating when sound waves strike it, is gradually reduced to the normal size.

"The pneumatic vibration of the tympanic membrane has restored good hearing to myself." "Massage in Trauma," by Fred Engelbrectson, M. D.

Never buy a Vibrator that only gives the pounding stroke. It is no good for medical purposes.

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White Cross Electric Vibrator

Improved No. 4

Portable Dry Cell Machine, giving Strong Mechanical Vibration and a Mild Current of Galvanic Electricity.



HIS outfit is designed to be used where there is no electric current in the house.

It is very simple to operate. It gives Mechanical vibration, strong enough for body massage. The vibrations can also be regulated to mild enough for the most delicate treatment for the eye, ear, scalp or facial massage. A Vib-

rating Chair can be made and operated by this outfit with the aid of attachment clamp No.14.

The frequency of the Vibrations are those found the most suitable for all kinds of body treatment as well as for development and beautifying.

It also gives a mild galvanic electric current suitable for treating a good many diseases. All the applicators made by us can be used with this Vibrator.

This outfit has eight dry cells of regular size. The Vibrator can be made to operate on either 2, 3, 5, 6 or 8 cells.

When the cells are exhausted they can be replaced by any one in a few minutes. Any regular size dry cell of high amperage can be used.

The case is extra fine and strong. The Switchboard is covered with plush to prevent the Vibrator and applicators from scratching. Size, 11\(\frac{1}{4}\times 6x10\(\frac{3}{4}\), with nickel trimmings and lock. It has a holder for holding the applicators when not in use.



(Patented July 9th, 1907)

We furnish with this outfit one B button, one C ball, one D soft rubber scalp, one H soft rubber cup, one J large hard disc and one K soft rubber ball applicator, for vibratory treatment; also one sponge with wooden handle, one sponge with head band and two conducting cords for taking electric treatments, also one oil can.

We furnish charts and full directions how to operate and how to take treatments written by an expert, with each machine.

Price, Complete, ready for use _____\$30.00

COMPARISON IN PRICES.

What others would charge for the different outfits if bought separately.

8 Cell Electric Vibrator, operated by a motor, as good as ours _______\$80.00

Galvanic Medical Battery, with electrodes, as good as ours ________10.00

A Vibrating Chair, as good as you can make with this Vibrator, at least _____50.00

Total, \$90.00

Our No. 4 Patented Electric Vibrator will give you the same treatments and results as the instruments mentioned on the opposite side.

Price only _____\$30.00

(Page 60)

White Cross Electric Vibrator No. 5

Portable Dry Cell Machine giving Strong Mechanical Vibration and a mild current of Galvanic Electricity

This vibrator is operated on twelve dry cells and gives very heavy vibration suitable for all kinds of body massage. The vibrations can be regulated to very mild for all kinds of facial and scalp massage. This is an ideal machine for Physicians, Sanatoriums, Hospitals, Barbers, Hair Dressers and Beauty Parlors, who have not the electric current in the



house, but it can be equally well used by families, as it is very simple in construction.

There is no vibration in the handle and it is practically noiseless.

It can be operated on 6, 9 or 12 cells and it has a device near the handle whereby the speed can be increased at the will of the operator.

The frequency of the vibrations are those found the most suitable for all kinds of body treatment as well as for development and beautifying.

The vibrating chair can be operated with aid of attachment R and clamp No. 14.

The galvanic electric current suitable for treating a good many diseases can also be obtained from this outfit when desired. This Current can also be used for Electrolysis, for removing superfluous hair, warts, moles and other facial blemishes. It has a set of electrodes for applying the Galvanic Current, as well as a very complete set of applicators.

The motor of the vibrator is very strongly built, and is well insulated. The Armature and Fields are stamped out of Norwegian Iron, and are wound with best double insulated, silk-covered wire. The Commutators have cut segments, and are insulated with Mica. The Bearings are made of Phosphor Bronze, and the Shaft is made of Tool Steel. It is provided with self-oiling oil cups.

When the cells are exhausted they can be replaced by any one in a few minutes. Any regular size dry cells of high amperage can be used.

The case is extra fine and strong. The Switchboard is covered with plush to prevent the Vibrator and Applicators from scratching. Size, 11½x9½x11½ with nickel trimmings and lock.

Full directions and charts, written by an expert, accompany each machine.

We furnish with this outfit one A Rectal, one B Button, one C Ball, one D Soft Rubber
Scalp, one H Soft Rubber Face, one J Large Disc, and one K Soft Rubber Ball Applicator
for Vibratory Treatment; also two sponges with wooden handles, one sponge with head
band, and one pair conducting cords for taking Electric Treatment, also one oil can.

Price complete, ready for use - - \$37.50



WHITE CROSS

Electric Vibrator Combination

IMPROVED No. 8

PORTABLE DRY CELL MACHINE

Gives Mechanical Vibration, Faradic and Galvanic Electricity

WITH THIS INSTRUMENT YOU CAN TAKE

Body Massage

Facial Massage

Scalp Massage

Ear Massage

Eye Massage

Swedish Movement

Vibrating Chair Treatment

Electric Body Treatment

Combined Vibratory and Electric Treatments

Light Galvanic Electric Treatment



(Patented July 9th, 1907)

Electric Baths in Your Own Tub

> Electric Scalp Treatments

Electric Facial Treatments

Operating Electric Needle for Removing Moles, Warts, Superfluous Hairs and Other Facial Blemishes

> Electric Light Examinations

OPERATED ON 12 DRY CELLS.

We furnish Charts and Full Directions for taking treatments, written by an expert, with each Machine.

For Description see Opposite Page. (Page 42)



WHITE CROSS ELECTRIC VIBRATOR COMBINATION, IMPROVED No. 8

Portable Dry Cell Machine. Giving Heavy Mechanical Vibration—Very Strong Faradic Electric Current and a Mild Galvanic Current

(ILLUSTRATED ON OPPOSITE PAGE)

A Commined Mechanical Vibretor and Electro Medical Battery, with a good Faradic Coil, Plates for Electric Bath, Electric Hair Brush for Scalp Massage, Electric Lamp for Examination, and a Full Set of Electrodes and Applicators.

HIS is a combined Mechanical Vibrator and Electric Medical Battery designed for Professional and Home use, where the operator wants both the mechanical vibration and electricity. With this outfit the vibration can be applied and taken alone, or at the same time the electricity is applied. It gives the Faradic Electricity strong enough for several persons at the same time, or it can be regulated so as to be mild enough for the most delicate applications. It gives Primary, Secondary and the combined Primary and Secondary currents. It also gives Galvanic Electric Current for medical purposes. This current can also be used for operating the electric needle in removing Facial Blemishes, Superfluous Hair, Warts, Moles, etc.

THE VIBRATING CHAIR can be operated with this outfit with the aid of Attachment Clamp No. 14. All the applicators and the electrodes we make can also be used with this outfit.

THE ELECTRIC LIGHT can be used for examining the mouth, throat and other cavities of the body.

ELECTRIC BATHS can be taken in any ordinary bath tub with the aid of the plates we furnish, and if wanted, vibration can be taken at the same time.

The electricity can also be taken at the same time the patient is seated in the vibrating chair. All kinds of Body and Facial Massage can be taken with this Vibrator, with or without the Electric Treatment.

This is a very complete outfit for medical purposes, giving very strong mechanical vibration and both the Faradic and Galvanic electricity.

REMEMBER—You can take facial and scalp massage, treat the eye, ear and any part of the body with either vibration or electricity. You can have the electric bath in your own bath tub, make examination with the Electric Lamp, and make your own rocker or any chair a vibrating chair with this outfit. It is so simple in operation that a child can use it. No one can ever do himself any harm with it and you have three of the best known relieving agents at your disposal—Vibration, Galvanic and Faradic Electricity.

Full Directions and Charts for operating and taking treatment, written by an expert, accompany each outfit.

Price complete ready for use, including applicators A, B, C, D, H, j and K; also two sponge Electrodes with handles, one sponge with head band, two large plates, two metal handles, two conducting cords, one electric hair brush, one Electric Lamp with Tongue Depressor and one oil can,

Price \$45.00

COMPARISON IN PRICES

What others would charge for the different outfits if bought separately.

12-Cell Electric Vibrator, operated by a motor, as good as ours \$30.00
Galvanic Battery with electrodes, as good as ours 10.00
Faradic Electric Battery, as good as ours 10.00
A Vibrating Chair as good as you can make with our vibrator, at least 50.00
Total, \$100.00

Our Patented Vibrator Combination No. 8 contains all the instruments listed on the opposite side and will give the same treatments and results, Price only, \$45.00

(Page 43)



PHYSICIANS

White Cross Combination Vibrator

IMPROVED No. 18

A Combined Dry Cell and Commercial Current Machine.



Patented July 9th, 1907.

Is operated on Dry Cells and on 100 to 120 Volt Direct and Alternating

Current. Gives Mechanical Vibration, and Faradic and

Galvanic Electricity.

FOR FULL DESCRIPTION SEE NEXT PAGE.

(Page 40)



Physicians White Cross Combination Vibrator.

IMPROVED No. 18

(ILLUSTRATED ON OPPOSITE PAGE.)



HIS MACHINE is designed for professional use and besides giving all the combinations that our No. 8 Vibrator will give, the vibrator can also be operated on the Direct and Alternating current. It also gives stronger Vibration and a stronger galvanic current, being operated on 15 dry cells.

The Faradic coil can be regulated to give Electricity strong enough for several persons at the same time or it can be made weak enough for a child. It gives both the Primary and Secondary current as well as the combined Primary and Secondary current.

The Galvanic current can be regulated in fine graduations and is suitable for illuminating small Incandescent Lamps, for operating the Electric Needle in removing facial blemishes, superfluous hair, warts, moles, etc., and also for all kinds of light Galvanic treatments.

With the aid of the Combination Plug and socket and extra appliances, furnished with the outfit the Vibrator can be detached from the case and attached to either the direct or alternating commercial current. This makes it a very handy outfit for those that only have the night current in their office and for those who want to take the machine where there is no current available.

It is also very convenient for those traveling as the vibrator with attachment Plug can be taken along and used on the commercial current without the case. While this outfit is designed for professional use any intelligent person can operate it with the aid of our directions.

It will give very strong Vibration which can be regulated to be weak enough for all Facial, Ear, Nose and other treatment. A Vibrating Chair can be made with the aid of the No. 14 Clamp by attaching it to any chair.

It gives Faradic Electricity strong enough for all medical purposes and for Electric baths. It gives Galvanic Electricity for all light Galvanic work and for operating the Electric needle, etc. It gives the combined Galvanic and Faradic Electricity so that both currents can be used at the same time.

It gives the combined Vibration and Faradic Electricity so both electricity and Vibration can be taken at the same time, also Electric baths and Vibration at the same time. Electric scalp treatment as well as Electric face and body massage can be taken with it.

Full directions and charts written by an expert for operating and taking treatment accompanies each outfit.

Price complete ready for use, including applicators A. B. C. D. J. K. and H. Also two sponge Electrodes with wooden Handles, one sponge with Headband, two large Plates, two metal handles, one electric Hair Brush, one Vaginal Electrode, one hand sponge Electrode, one Erbs Electrode, one pair of conducting cords, one plug and socket attachment and one resistance lamp, one Electric Examination Lamp with tongue depressor and one oil can \$57.50

COMPARISON IN PRICES.

What others would charge for the different outfits if bought separately.

Combination Vibrator operated by a Motor, as good as ours \$35.00 Combined Galvanic and Faradic Battery, as good as ours \$20.00 A Vibrating Chair, as good as you can make with our Vibrator, at least . . . \$50.00 Estra Electrodes and appliances furnished . \$5.00

Total,

Our Patented Physicians Combination Vibrator No. 18 contains all the instruments listed on the opposite side and will give the same treatments, Price only, \$57.50

(Page 45)



WHITE CROSS ELECTRIC VIBRATOR No. 10

Machine for Commercial Current

Operates on from 100 to 120 Volts Direct and Alternating Current



This machine is operated on the Commercial Light Current and is very convenient to use where the electricity is in the house.

A full set of applicators is furnished for taking facial, scalp and body massage.

It is so constructed that it is impossible to

stop the Vibrator even with the hardest pressure.

It can be regulated to give percussion stroke, side stroke and rubbing motion.

A Vibrating Chair can also be made with this Vibrator.

It is put up in a Leatherette Case, 111 inches long, 64 inches wide and 4 inches high, with nickel trimmings.

Everything is made of high grade material and first-class

workmanship.

We furnish with this machine, one B button, one C ball, one D soft rubber scalp, one H soft rubber cup, one J large hard disc and one K soft rubber ball applicator, also one oil can.

Full directions and Charts for operating and taking treat-

ment accompany each outfit.

In ordering state voltage it is to be operated on and whether you have the Direct or Alternating current.

Price, Complete, Ready for Use \$22.50.

THIS MACHINE GIVES MECHANICAL VIBRATION ONLY.

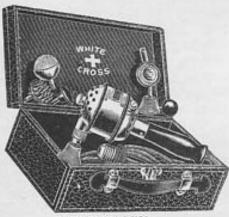
(Page 46)

White Cross Electric Vibrator No. 26

Operates on 100 to 220 Volt Direct and Alternating Current Family Outfit

This machine is designed for home use, and the construction is so simple that anyone can operate it.

It gives very heavy vibration, suitable for all kinds of Body Massage, and it can



PATENT PENDING

be regulated so as to be mild enough for delicate treatments of the scalp, face, eye, and ear. It gives the percussion stroke, rubbing and angular stroke, as well as the popular lateral or side stroke, so beneficial to the face and scalp.

It is very simple to operate. It has a regulating device near the handle by means of which the Vibration can be regulated in graduations; the vibrator can also be started and shut off by the same device.

It can be operated on both Direct and Alternating Current, which is a great advantage for those who live in rented houses in case they move, or to those who are

traveling from one place to another, where they have the different currents.

There is practically no vibration in the handle, and it is almost noiseless. The Vibrating Chair can be operated with the aid of attachment R and Clamp No. 14.

The motor of the vibrator is very strongly built, and is well insulated. The Armature and Fields are stamped out of Norwegian Iron, and are wound with best double insulated silk-covered wire. The Commutators have cut segments, and are insulated with Mica. The bearings are made of Phosphor Bronze, and the Shaft is made of tool steel. It is provided with self-oiling oil cups, and re-inforced cords.

Size of Vibrator 27 inches in diameter.

Put up in a leatherette case, with velvet base; size, $11\frac{1}{2} \times 6\frac{1}{4} \times 4$ inches.

Full directions and charts written by an expert accompany each machine.

Price, complete with one B Button, one C Ball, one D Soft Rubber Scalp, one H Soft Rubber Face, one K Soft Rubber Ball Applicator, also oil can...........\$27.50

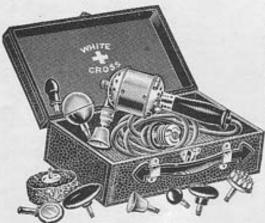
When ordering state Voltage and Cycles it is to be operated on,



White Cross Electric Vibrator No. 29

Operates on 100 to 220 Volt Direct and Alternating Current **Professional Outfit**

This machine is designed for professional use, but the construction is so simple that anyone can operate it.



PATENT PENDING

It is a very complete outfit, for Barbers, Hairdressers, and Beauty Parlors. The vibration is suitable for all delicate treatments of the scalp, face, eye, and ear, but it can also be regulated to give very heavy vibration suitable for all kinds of Body Massage. It gives the Percussion stroke, rubbing and Angular stroke, as well as the popular Lateral or Side stroke, so beneficial to the face and scalp.

It is very simple to operate. It has a regulating device near the handle by means of which the Vibration can be regulated in graduations; the vibrator can also be started and shut off by the same device.

It can be operated on both the Direct and Alternating Current, which is a great

advantage for those who want to take the machines out to give treatments in the homes, or to those who are traveling from one place to another, where they have the different

There is practically no vibration in the handle, and it is almost noiseless. The Vibrat-

ing Chair can be operated with the aid of attachment R and Clamp No. 14.

The motor of the vibrator is very strongly built, and is well insulated. The Armature and Fields are stamped out of Norwegian Iron, and are wound with best double insulated silk-covered wire. The Commutators have cut segments, and are insulated with Mica. The Bearings are made of Phosphor Bronze, and the Shaft is made of Tool Steel. It is provided with self-oiling oil cups, and re-inforced cords.

Size of Vibrator 25 inches in diameter.

Put up in a leatherette case, with velvet base; size 11½ x 6¼ x 4 inches.

Full directions and charts written by an expert accompany each machine.

Price, complete with one A Rectal, one B Button, one C Ball, one D Soft Rubber Scalp, one H Soft Rubber Face, one I Large Soft Rubber Sponge, one J Large Disc, and one K Soft Rubber Ball Applicator, also oil can.....

When ordering state Voltage and Cycles it is to be operated on.



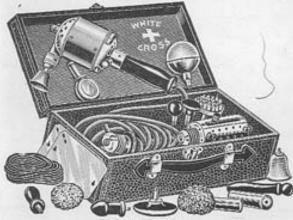
White Cross Electric Vibrator No. 31

Combined Vibrator and Electric Outfit for use on 100 to 220 Volt Direct and Alternating Current

Physicians' Outfit

This outfit is designed for Physicians, Sanitoriums, and Hospitals as the vibration is extra heavy.

It is suitable for all kinds of Body Massage, and it can be regulated so as to be mild



PATENT PENDING

enough for delicate treatments of the eye, ear, nose, throat, face and scalp. It gives the Percussion stroke, rubbing and angular stroke, as well as the popular lateral or side stroke.

It has a regulating device near the handle by means of which the Vibration can be regulated in graduations; the vibrator can also be started and shut off by the same device

It can be operated on both the Direct and Alternating Current which is a great advantage for those who want to give treatments to their patients in the homes, where they have the different currents.

By the use of the Rheostat that accompanies the outfit, the vibration

can be regulated in very fine graduations, and the Commercial Electric Light Current can be used for Medical Purposes. It can be attached to any socket just like a lamp. The current can be regulated in very fine graduations by simply moving a knob up or down. There are no shocks connected with the use of the instrument.

A true sinusoidal current, equal to that which is obtained from large and expensive outfits, can be obtained by attaching this Rheostat to the alternating current.

The Galvanie Current can be obtained from this Rheostat when attached to the Direct current. It will give from one to twenty-five Milliamperes of current, either through the metal handles or through the sponges, which is all that is necessary for all ordinary medical treatment.

For those who have access to the Direct Current it is a great advantage to use this Rheostat as it gives as much Galvanic Current as 30 to 40 cells. Attached to the Alternating Current it gives as much current as the large and expensive outfits. Physicians and others will appreciate this combination outfit, as it can be easily carried when visiting and traveling, and electric treatment given wherever the electric current is available.

There is practically no vibration in the handle of the Vibrator; and it is almost noiseless. The Vibrating Chair can be operated with the aid of attachment R and Clamp No. 14.

The motor of the vibrator is very strongly built, and is well insulated. The Armature and Fields are stamped out of Norwegian Iron, and are wound with best double insulated silk-covered wire. The Commutators have cut segments, and are insulated with Mica. The Bearings are made of Phosphor Bronze, and the Shaft is made of Tool Steel. It is provided with self-oiling cil-cups, and re-inforced cords.

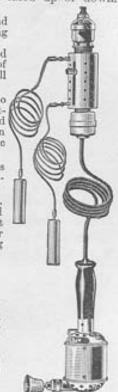
Size of Vibrator 2; inches in diameter.

Put up in a leatherette case, with velvet base; size 111x61x4 inches.

Full directions and charts written by an expert accompany each outfit.

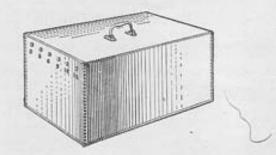
Price, complete with one A Rectal, one B Button, one C Ball, one D Soft Rubber Scalp, one H Soft Rubber Face, one J Large Disc, one K Soft Rubber Ball, and one Soft Rubber Eye Applicator, for use with the Vibrator; also one pair of Conducting Cords, one pair of Sponges, one pair of Wooden Handles, one pair of Foot Plates for use with the Rheostat for electric treatments; also call can.

When ordering state Voltage and Cycles it is to be operated on.





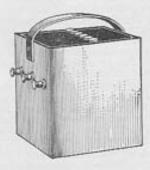
BOX OF DRY CELLS, No. 145



This box contains 15. High Amperage Dry Cells of regular size. It has six Binding Posts on the end of the box, so that any of our Cell Machines can be attached and operated on any 3, 6 or 9 cells in the circuit.

Price, - - - - \$4.50

STORAGE BATTERY NO. 151



When the Electric Current is not available, a Storage Battery is the cheapest motive power for running a Cell Vibrator, as it only costs about 25 cents to have them recharged. These batteries will run any of our Cell Vibrators from 15 to 20 hours on one charge.

The Vibrator can be connected to operate on either 3 or 6 Cells.

Price, 6 Cell Battery, 12 Volt 30 amperage, - \$15.00

We ship them charged and ready for use.

(Page 50)



PRICE LIST OF APPLICATORS



These can be used with all our Vibrators

	P	elan.	Postage
Α.			
В.	Button Applicator		
	Ball Applicator		
	Soft Rubber Scalp Ap-		
	plieator		0.02
E.	Bust Applicator	1.50	0.08
G.	Glass Face Applicator.	.40	0.03
H.	Soft Rubber Face Ap-		
1	plicator	.40	0.02
	Large Soft Rubber Sponge for eye and deli-		
	eate treatment	1.50	0.03
J.	Large Hard Disc	.40	0.02
K.	Soft Rubber Ball	.45	0.02
L.	Soft Rubber Vaginal		
A	applicator	2.00	0.03
M.	Soft Rubber Ear	.75	0.04
N.	Soft Rubber Eye	.35	0.03

Attachment Clamp No. 14

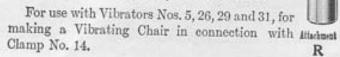
Patented March 16, 1909

This attachment Clamp can be used in connection with all our Vibrators for making a Vibrating Chair.

\$2.25

Price - -

Attachment R, Price 60c



(Page 51)



Advantages Over Other Vibrators

- (1st)—The White Cross Electric Vibrators have nearly as many advantages over other vibrators as the sewing machine has over the common needle. They can be operated on dry cells, direct and alternating current, any cycles. This is a great advantage if the owner wants to move from one place to another or take the machine out when traveling.
- (2nd)...They are operated by a high grade motor, made especially for our Vibrators. Any amount of pressure does not stop the Vibrator, even when run on dry cells, hence, you can reach locally any point deeply situated in the tissue.
- (3rd)—The motor that operates the Vibrator is entirely enclosed in a highly polished metal case. There are no wheels, or anything outside to scratch or tangle up the hair or the clothing of the operator, like in many other machines.
- (4th)...Our machines are very light, they do not tire the hand or arm like most Vibrators do.
- (5th)—Our Vibrators give long and percussion stroke, medium and side stroke, short and rubbing motion. The strokes can be changed while the Vibrator is in operation. It can be regulated to give from the finest to the very strongest vibration. Most all other vibrators give but one stroke and that is not suitable for medical purposes, according to all medical authorities. (See page 7.) The White Cross Vibrator will operate in any position; you simply turn a switch and that starts the Vibrator. Some cheap vibrators have to be drawn like a rake or held in a certain position in order to vibrate.
- (6th)—They can be used either for face, scalp or body treatment with the aid of the many applicators we furnish with each machine.
- (7th)...A Vibrating Chair can be made with some of our Vibrators in a minute. Your rocker or any chair can be made a Vibrating Chair and give better results than those selling for \$75.00 to \$100.00. Our Vibrator can be placed anywhere on the back of a chair, near the seat, or near the shoulder or neck; it can also be placed under the seat, in front or side, so as to give the most vibration to the limbs that need the treatment, while it also vibrates the whole body. No other Vibrator can do this.
- (8th)—Electric Baths and General Electric Treatments can be taken through our Vibrator Combination No. 8 and No. 18 alone, or at the same time vibration is taken. No other vibrator can do this.
- (9th)---We furnish Charts and Directions for taking treatment, written by an expert, with each machine.

Notice to Purchaser

All goods manufactured by us are strictly first class. We use only the best of material and workmanship and we guarantee the best results.

Every Vibrator is thoroughly tested by an expert electrician before it is shipped out,

If you are in doubt as to what instrument is best adapted for your needs, tell us clearly and candidly what you wish it for and save experiments, mistakes and failures. We will always be glad to advise you to the best of our ability.

Warning

Do not be misled by glowing advertisements of those who sell but one kind of Vibrator and do not even manufacture that. We are inventors, patentees and manufacturers of electric Vibrators and a full line of high-grade massage machines, electric batteries, electrodes and combination outlits. We do not deal in toy vibrators.

How to Send Money

Money can be sent by post money order, express money order or registered mail.

References

Our references are:	
National City Bank of Chicago	Chicago
Central Electric Company	Chicago
M. S. Fleischman & Co., Wholesale Jewelers	
Metal Specialty Mfg, Company	
Chicago Case Mfg, Company	
Commercial Electric Motor Mfg. Co	
or any Mercantile Agency.	

For Further Information

in regard to vibration as a curative agent for diseases mentioned in this book read:

"Vibratory Technique." 103 pages, by Benjamin Huston Brown, M. D. \$1.00 .05
These books can be secured from any Medical Book Company or from us.



Read What Prominent Journals Say About Our Vibrators

AN ELECTRIC VIBRATOR.

Most of the vibrators do not give electricity with the vibrations but what is known as the Lindstrom, Smith Vibrator gives not only vibration but electrical treatment with it. We wish to call the attention of our readers to the information given in the booklet that is sent free on application which will prove of interest even though you may not now need the vibrator. Another important appliance being introduced by the Lindstrom, Smith Co. is an attachment to be combined with any ordinary chair by which you can make of it a vibrating chair, giving a form of treatment that is fully recognized as valuable but has been only secured in sanitariums, hospitals, etc., or by the use of expensive apparatus. These appliances are likely to attract very wide spread attention and prove of great value.—Reprinted from The Health Culture, August, 1907.

AN ELECTRIC VIBRATING CHAIR.

By means of a special clamp just brought out, the Lindstrom, Smith Company, Chicago, afford means of attaching their Vibrator to an ordinary wooden chair, thus transforming it into a vibrating chair. The clamp is fastened to the back of the chair with a thumb screw, and a little auxiliary clamp device surrounds the body of the Vibrator and holds it in the position shown. Sitting in the so equipped chair and leaning backwards imparts a general stimulation to the body.—Reprinted from the "Electrical Record," June, 1907.

A VIBRATING CHAIR.

A Vibrating Chair for every Home is now possible with a new invention.

The Vibrator is attached to a clamp, and this clamp can be attached to any part of the chair, either side, front or back.

The Vibrator can be regulated so as to give from one thousand to many thousand vibrations per minute while the muchine is in operation.

Until now the Vibrating Chair has been a luxury, as very few physicians have been able to get them on account of the high price.

The extremely low price puts this outfit within the reach of all. For promoting circulation, etc., it has no equal, and the patient can be left in the chair without any attention from the physician. When the Vibrator is not attached to a chair, it can be used the same as any ordinary Vibrator is used. The Vibrating clamp and machines are invented and manufactured by Lindstrom, Smith Co., 253-261 La Salle St., Chicago, Ill.—Reprinted from "Medical Centure," July, 1907.

A Few Testimonials

Taken from the Thousands We Have Received

A SHORT TESTIMONIAL FROM A DOCTOR. Longmont, Colo., Aug. 20, 1907.

Lindstrom, Smith Co., Chicago.

Gentlemen:—I have just received the No. 7 Combination machine, and to say that I am well pleased with it is not enough. I am just simply delighted with it, and every one that sees it is the same. I wish I could tell every physician just how bad he needs one in his office, I am sure he would not hesitate to place his order for one at once. Thanking you for your promptness in shipping the same to me, I remain,

Yours truly,

DR. W. H. EASTER.

Lindstrom, Smith Co., Chicago.

Gentlemen: - The Electric Vibrator Machine No. 4 came to hand today. After looking over this machine and giving same a trial, I must say you have the very best goods for the money I have seen.

Trusting to soon place an order for more machines, and thanking you for your promptness, I am, with very best wishes for your success,

Yours very truly, DR. CHAS. I. WHITE-449 Main St., Riverside, Cal.

From a Prominent Chicago Surgeon.

Chicago, March 15th, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—I have been using your Vibrator on my right knee, with a very gratifying result.

I have been troubled with Synovitis caused by a wrench in entering my carriage.

Very truly yours,
DR. J. P. WEBSTER, 63rd St. and Normal Ave.

Don't Pay \$75.00 for a Vibrating Chair

(Page 54)



Testimonials

Continued

THE COLUMBUS MEDICAL JOURNAL FOR THE HOME.

Columbus, Ohio,

Lindstrom, Smith Co., Chicago, Ill.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I have one of your Electric Vibrators No.
4 in my office and it is in constant use every day.
I need another one immediately. Will you kindly ship
me at once by express a No. 4 Vibrator complete.
The Vibrator has given such excellent service to me in
my practice that I intend to write an article concerning it
for the Columbus Medical Journal. Yours very truly,
C. S. CARR, M. D., Editor.

Ghent, Ky., Feb. 8, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—Since ordering your Electric Vibrator, about six weeks ago, I have used it regularly for nervous troubles, sore spots in spine, and feel some botter than when I began its use.

Yours very truly, MRS. J. M. LEMON.

The Goodrich, Holyoke, Mass., March 29, 1909. Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—I am more and more pleased with the vibrator. It works fine, and is surely a good thing to have. I would not at any price part with it if I could not get another. Have had neuritis in my right arm, was bad for a few days, but the vibrator took the kinks out and can now use my arm and am nearly well. I feel that this alone has paid for the vibrator. Wishing you much success and wishing people knew more about your vibrator, also thanking you for all favors, I am,

Sincerely.

MRS. W. O. JUDD.

Sincerely. MRS. W. O. JUDD.

VIBRATING CHAIR EQUAL TO CHAIRS SELLING FOR \$150.00

Kansas City, Mo., April 19, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—The latter part of June or the first of July last I purchased of you the White Cross Electric Vibrator Combination No. 8 portable dry cell machine, and I will say that we have been very much pleased with it. My wife has had spinal trouble from childhood and had been subject to severe headenches for a period of thirty-five years. The vibrator has always relieved her headaches immediately, greatly helps her spinal trouble, and it commenced to do this from the very start of using it. My wife says she would not part with the machine. We have used the vibrating chair by means of the clamp attachment, and a friend of ours, a doctor, says it is equal to a vibrating chair that he used and cost \$150.00. Very truly yours,

J. W. LOWE.

IS GOOD FOR HAIR DRESSERS

Cameron, Mo., Feb. 20, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—Your vibrator is far more satisfac-tory than the one I had. I don't feel as though I can be without it a single day. Very truly, MRS. M. E. FIELDS,

Hair Culturiet and Dealer in Hair Goods.

BENEFITS MANY

Oroville, Calif., June 4, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—We received the vibrator and are very well pleased with it. It is helping my husband and two or three others that have tried it. I am sending money for another from a friend who saw ours.

Yours truly,

312 Liscoln St. MRS. D. HILLTON.

IS FINE FOR SWOLLEN FEET, BACKACHE AND MANY OTHER TROUBLES

Sumas, Wash., Jnue 10, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—Received vibrator just over a week ago. I am delighted with it. For months past I was unable to breathe through my nose; now I can breathe quite freely with my mouth closed. Of course I do not expect the head noises to cease yet as my deafness is of long standing, but I think with time and patience they will cease. I find the vibrator splendid for scalp massage. I was troubled very much with dandruff, also for tired and swollen feet and backache. I feel I cannot praise it enough. I think one or two of my friends will buy soon. Received rubber cup, with many thanks.

Yours respectfully, NELLIE RUOH.

DOCTOR FINDS IT GIVES RELIEF FOR GALL STONES

Hubbell, Nebr., April 23, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—Whenever I make a country drive I take with me the vibrator and use it for many different kinds of pain. Even in the backache of the first stage of labor my patients invariably are pleased. In shill stone, the reflected pain in the back is often the most troublesome complaint, and even here comfort is obtained. Yours truly,

C. E. RICHARDS, M. D.

DOCTOR RECOMMENDS OUR VIBRATOR

Augusta, Mont., Aug. 2, 1989.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—Many thanks for your advice. I have gotten the vibrator No. 29 to work O. K. and am well pleased with it. Yours truly,

F. E. McCANN, M. D.

PHYSICAL DIRECTOR USES IT FOR SPECIAL

Galveston, Texas, June 21, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs;—About a month or so ago I bought one of your No. 11 Vibrators. I like it so much and it has done considerable good already that I find that I would rather have one of your larger ones. You will see that I am physical director in the Y. M. C. A. here, and I would use it some with my work here in treating special cases. I am well pleased with the machine that I have and feel the need of a stronger one. Yours truly,

Physical Director, Y. M. G. A.

Physical Director, Y. M. C. A.

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Testimonials

Continued]

HAS BEEN GREATLY BENEFITED BY THE VIBRATOR

U. S. S. McCullock,
Sausalite, Calif., May 22, 1993.
Lindstrom, Smith Co., Chicago, III.
Gentlemen:—I am very much pleased with the machine, which I received in good condition, and find that after using it I rest much better and have been greatly benefited by the use of it.
Respectfully yours, J. W. WALKER.

VIBRATOR IS GOOD FOR SWELLING AND PAIN IN JOINTS

Lindstrom. Smith Co., Chicago, III.

Sirs:—I have been using your electric vibrator for about one month and am so much pleased with it that I am sending it home to my brother in Vermont to use for his rheumatism. I wish you would kindly send him some of your circulars with prices, etc. I also wish to ask if I can get another vibrator for myself at the same price I pald for mine as I wish one for myself and I send the one I have to my brother as a present to see if it will not give him relici for stiff knee joints which have troubled him for many years and nothing seems to give much help and I am banking on the vibrator to do this as it has done much toward taking the swelling and pain from the joints in my fingers.

Respectfuly yours, ANNIE E. SMITH.

IS RELIEVED FROM RHEUMATISM

August 2, 1909.

August 2, 1909.

Gentlemen:—Would say that a friend of mine has used the vibrator for rheumatism and received a good deal of relief from it. Please send applicator in care of New England Tel. & Tel. Co.

Yours truly,

F. W. FOSTER.

DOCTOR HAS USED IT WITH MARKED SUC-CESS

Adams, N. V., March SI, 1909.

Lindstrom, Smith Co., Chicago, III.

Gentlemen:—Received the No. 4 Vibrator Monday in good condition and have used same with marked success on several of my patients.

Yours very truly,

Box 233.

DR. BERT B. COLLINS.

USES VIBRATOR FOR COLDS, HEADACHES. ETC.

Lindstrom, Smith Co.

Gentlemen:—Some time ago my wife purchased of you one of your No. 29 Vibrators, and its use has done her a world of good. You can use us for reference at any time. She makes us all "vibrate" for incipient colds, headaches and many other allments.

Sincerely, YOHN M. KILLITS.

JOHN M. KILLITS.

FEEL GREATLY IMPROVED FROM NERV-OUSNESS

Glendive, Mont.

Lindstrom, Smith Co.

Dear Sirs:—I received the No. 4 Vibrator in good condition about one month ago, and feel greatly improved from nervousness.

Yours very truly, JOHN HARKNESS.

IS A BEAUTIFUL INSTRUMENT

Oberlin, O., Jan. 21, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Goutlemen:—The No. 18 Electric Vibrator came in duc time and in good condition. Thank you for your promptness. It is a beautiful instrument, and although I have had it less than a week, yet no one could buy it for twice what it cost if I couldn't get another. It has already done good work, and I think will have a good deal of work to do. It worked beautifully.

Yours very truly,

P. F. FINCH.

IS WELL SATISFIED WITH VIBRATOR

Newberry, Fla.

Lindstrom, Smith Co. Gentlemen:—I am very well satisfied with your Vibrator. Enclosed find check for which please send me a No. 18 Vibrator. Yours very truly, C. N. McARTHUR.

RELIEVED CRAMP IN STOMACH

Junction, Texas.

Lindstrom, Smith Co.
Gentlemen:—I tried the vibrator on one person for cramps in stomach and cured it in three minutes and he has not had it since.
Yours very truly, REV. S. E. McKEE.

VIBRATOR WORTH TEN TIMES ITS COST

Modesto, Cal.

Lindstrom, Smith Co.

Gentlemen:—I received the foot plate and chair attachment. I thank you very much for the generous manner in which you have responded to my orders for goods.

The Vibrator has overcome the Chronic Constipation at last. I did think for a while my bowels were paralyzed. The Vibrator has cured the Neuralgia and Sciatica, which I was suffering from. I was almost on the verge of insanity.

sanity.
The Vibrator has been worth ten times its cost.

Very respectfully,
MRS. M. A. MUSGROVE,
R. No. 1, Box No. 97.

RELIEVES STIFF BACK

Longmont, Colo.

Indistrom, Smith Co.

Gentlemen:—I have had your No. 29 Vibrator for two months and have not used it as steadily as I should, but will say my back was so stiff that I had trouble in stooping down and getting back up, but that has now all left me.

Yours respectfully,

GEO. M. LONGSHORE

THEY USED THE VIBRATOR MORE THAN A YEAR WITH FINE RESULTS

Mount Holly, N. J.

Lindstrom, Smith Co.

Gentlemen:—I have used your vibrators for more than one year, and like them very much, and have treated and cured several people with them.

Respectfully,

118 E. Mill St.

J. W. LIPPINCOTT.



Testimonials

Continued

HAS HELPED HER IN MANY WAYS

Templeton, Wis., April 5, 1909. Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I am very much pleased with the brator. It has helped me in many ways. Respectfully, MRS. C. IL CRITTERDEN.

IS SECOND TO NONE

Del Rosa, Calif., April 30, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I have used nearly every make and find yours second to none. My business is Physical Culture and Massage and have a good trade. Bespectfully, MR. IL A. GUYER.

PREFER PR TO MANY HIGH-PRICED MA-CHINES

Guthrie, Okla., July 14, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—There is no other nucline on the market for the same money so good and I prefer it to many higher priced ones for several practical reasons. Very respectfully,

Box 97. DR. SAM I. WHITMORE.

"I JUST WORSHIP MY LITTLE VIRRATOR"

New Bedford, Mass.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—You will remember I bought a vibrator of you last December and to tell you I am pleased is not a strong word enough. I just worship my little vibrator and I am sure I could not get along without it. Yours,

284 Union St. S. LILLA PARKER.

HAS DONE WONDERS IN TWO MONTHS

San Bernardino, Cal.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—My vibrator has done wonders for me, and I have only had it two months. Yours respectfully, 377 E. St. MRS. E. PARKHURST.

USE IT FOR CATARRH AND HEARING

Pasadena, Calif., July 1, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen: —I have tried the No. 4 with a few treatments and it works fine and I used it myself for catarrh and hearing. It gives all the satisfaction I could expect. Yours truly,

PROF. GEO. H. REYNOLDS.

444 N. Catalenn Ave.

IS PLEASED WITH THE RESULTS

Scio, O., June 26, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—I received my vibrator No. 13 with outfit a few days ago and I am well pleased with results already secured by its usc. My extra order for appliances has also reached me safely.

Very truly yours,

T. D. BOONE.

MUST HAVE ANOTHER ONE FOR HER BEAUTY PARLOR

Santa Ana, Calif., May 5, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen; —My son has gone on a long traveling tour for his wife's health and they were so
pleased with the machine they took it with them,
so I must have another for my beauty parlors but
I think the No. s will do for the present.

Most respectfully yours,
406 West 4th St. MARY O. WALKER.

IS HELPING HER

Sedro Woolley, Wash., June 19, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—I received the vibrator all right and I am pleased to say that it is helping me quite a little. Respectfully yours, MRS. D. A. LOW.

IS BENEFICIAL IN MANY WAYS

Cincinnati, O., Sta. O., June 14, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I am very fond of the vibration treatment and find it beneficial in many ways. Yours truly, 3619 Shaw Ave. MAUD M. CHRISTOPHER.

IS HELPING HIS MOTHER A LOT

Wolcott, N. Y., June 8, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—The vibrator is helping my mother lot. Yours respectfully, E. E. WINSOR.

IS A GOOD FAMILY DOCTOR

Melrose, Mass., June 5, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I am pleased to state that your machine No. 18 has given me a lot of benefit. It is, in fact, my doctor and every time I don't feel just as good as I should I take treatments, either vibration or Electricity, and the trouble ends. I cured a very bad case of Lumbago that was puzzling two doctors, applying Vibration and Furadic Electricity. I am proud of my machine. I show it to all who come to see me and am not afraid to recommend it to them. Wishing you a great success, I remain. Yours truly,

169 Linwood Ave.

ROSINNA NITTL

THE VIBRATING CHAIR IS FINE FOR THAT TIRED FEELING

Duffalo, N. Y., May 29, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I would not take the price I gave for the vibrator if I could not get another. The benefit I have received for my eyesight and broachial trouble is of great value. The Vibrating Chair is fine for that tired, exhausted feeling. As far as I have used the vibrator I can speak in favorable terms.

Respectfully yours.

Mits. R. A. HAMBLETON,

24 Rhode Island St.

FIND RELIEF IN THE VIBRATOR

Prosser, Wash., May 23, 1909.

Lindstrom, Smith Co., Chicago, Ili.

Gentlemen:—I am beginning to find relief from the use of the machine and have great hopes in it. I use it twice a day very carefully.

Respectfully yours, MRS. M. L. SOUTH.

IS THE BEST OF ALL HE HAS TRIED

Santa Cruz, Calif., May 24, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—Have just received the No. 11 Vibrator and I am very much placed with it. Of all I have tried it is the best yet.

Yours respectfully.

148 Water St. F. J. DICKMEYER.

IMPROVES HER HEALTH

Schenectady, N. Y., July 26, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—My general health is much better since I have used the vibrator. Yours respectfully, 12 N. Ferry St. MISS ALICE F. SOLES.

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Testimonials

Continued

NO CHANCE FOR RHEUMATISM WHEN THE VIBRATOR IS AROUND

St. Joseph, Mich.

Lindstrom, Smith Co.

Gentlemen:—I received the vibrator in firstclass shape, read the directions carefully and
started to take treatments. It is the best instrument ever made. No chance for rheumatism when the vibrator is around.

Yours very truly.

ERMIL WINTER.

REMOVES DANDRUFF

REMOVES DANDRUFF

West Haven, Conn., Dec. 7, 1908.

Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—The electric vibrator which you forwarded to me was received in due time and in perfect condition, with quilte satisfactory results, so far. It entirely removed all dandruff from my scalp in less than five minutes, which was a result hardly to be expected from first application. I have no doubt it will prove equally as efficacious in general treatment.

Yours truly,
38 Church St.

HENRY KEYES.

MADE HIS LEG FEEL LIKE NEW

Gentry, Ark.

Lindstrom, Smith Co.
Gentlemen:—I used No. 4 Vibrator on my leg, which has been partly paralyzed for three years and it feels like a new leg. I used it twice, but my wife used it three times and she slept like a log all right. The vibrating chair is simply immense. Accept our sincere thanks.

Yours very truly,
H. W. UNNGESSER. Lindstrom, Smith Co.

RELIEVES LUMBAGO AND NERVOUSNESS

Welda, Kansas.

Lindstrom, Smith Co.

Dear Sir:—Received vibrator all O. K. It is all you claim it to be. My wife got relieved right away from its use, of Lumbago and Nervousness. My son had the Tonsilitis and got re-Truly yours, H. STOCKER.

CONSTIPATION HELPED IN ONE TREATMENT

Lindstrom, Smith Co.

Dear Sirs:—I acknowledge receipt of the vibrator in good condition and would say it has helped us wonderfully. My wife and another were troubled with constipation and were helped with one treatment. Would not be without it.

Yours truly,

1865 E. Wensley St. BENJ. McBRIDE.

RELIEVED SCIATICA

Stillwell, Okla.

Lindstrom, Smith Co.
Gentlemen:—I know that my vibrator has been the means of lessening the awful agony from Sciatica, and I will do you all the good I can whenever I have a chance to do.

Very sincerely,

MARGUERITE KING.

RELIEVED HIM OF TERRIBLE PAINS

Fostoria, Mich.

Lindstrom, Smith Co. Lindstrom, Smith Co.

Gentlemen:—Vibrator No. 4 arrived in working order, and since using it according to directions, it has relieved me of the terrible pain in my side that I had for months. Also I am helping a sufferer from rheumatism.

Yours very sincerely.

R. F. D. No. 2, Box 39. MRS, R. M. BENCH.

HAVE SUCCESS IN TREATING RHEUMATISM

Bloomsburg, Pa.

Lindstrom, Smith Co.
Gentlemen:—I am having fine success with my
vibrator for rheumatism and have cured the
worst forms of rheumatism.

Yours very truly. MRS. GEORGE BERTSCH. 161 E. 4th St.

IT IS GRAND

Lindstrom, Smith Co., Chicago.

Gentlemen:—You shipped me a vibrator on the 25th of Jan, and I received it O. K. on the 27th. I thank you for being so prompt in sending it and I must say that I am delighted with it. It is grand; I must say that your vibrator is far superior to the machine I bought sometime ago from a certain party in Chicago. You know the firm if I would mention the name, but I will say, knowing the difference between your vibrator and theirs. I would sooner pay you \$50 for your vibrator than pay \$1 for theirs. I did not receive 18 cents worth of benefit from their pounding machine.

We have 70 inmates here. A great many of them have tried my vibrator and they are all delighted with it. We have a friend who is very deaf and we are writing to him and sending him your book.

Box 71.

RELIEVED HEADACHE AND THAT TIRED FEELING

Lindstrom, Smith Co.

Gentlemen:—Your electric vibrator received Nov. 25th, and after over three weeks' trial, I will with pleasure, say I am greatly pleased with the machine and would not be without one in the house; my wife gets great benefits from the machine—it relieves those tired feelings and headaches she so often has. The machine does all you claim it will do. The little follow with paralysis goes out this cold weather and stays two to four hours at a time before he gets cold—so I just think it a wonder.

Yours very truly,

105 3rd St. N. E.

J. E. JOHNSON.

GIVING TREATMENT WITH IT

St. Stephen, N. B., Canada, Sept. 15, 1908.
Lindstrom, Smith Co., Chicago, Ill.
Dear Sir:—Yours of Sept. 2nd received only
yesterday but the vibrator came last week and
seems to be very satisfactory. One of my deaf
patients is getting along very satisfactorily.
Yours truly,

rs truly, ALICE M. STEVENS.

IS PLEASED WITH NO. 18 VIBRATOR

New York City.

Lindstrom, Smith Co. Lindstrom, Smith Co.

Gentlemen:—Am much pleased with my outfit No. 18. No one can reasonably ask more than it gives. My brother, L. A. Hanks, president State Bank, Madison, Wis., will order one Yours truly,

A. P. R. HANKS,

Senior Capt. U. S. Revenue

Cutter Service,

U. S. Life Saving Station.

USE IT FOR DEAFNESS

Coopersburg, Lehigh Co., Pa., May 21, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—Have been using No. 4 White
Cross Vibrator some time and like it very much
—especially with the ear applicator for the
treatment of deafness. Yours truly,
J. G. DUBBS.

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Testimonials

Continued

LIKE OUR MACHINES BETTER THAN ANY OTHER MAKE

Waddy, Ky., May 19, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—My No. 8 machine was lost in a fire. Like your machine better than other makes. Will forward order at once for another.

Respectfully,

Route No. 2. E. L. JOHNSON, M. D.

IMPROVES HEARING

Mt. Washington, Md. May 6, 1905.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I have received some benefit from
the vibrator already as my hearing is better.
Respectfully,
39 Hooper Ave.
BELLE DAILEY.

GOOD FOR EARS AND SHOULDER

GOOD FOR EARS AND SHOULDER

Belgrade, Mont., May 16, 1905.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I received the White Cross Electric Vibrator machine. I have used it about two hours since I commenced treatment and it does lots of good for my hearing and does my shoulder good. It is worth its weight in gold.

Yours truly,

R. E. DIAL.

IS IMPROVING FROM RHEUMATISM

Guernsey, Wyo., July 9, 1909. Lindstrom. Smith Co., Chicago, III. Gentlemen:—I am improving all the time with my rheumatism. Yours respectfully. W. F. SEWARD.

GOOD FOR WRINKLES

Cleveland, Ohio,
Lindstrom, Smith Co., Chicago, Ill.
I have used the vibrator but two weeks and I find it removes wrinkles. Respectfully,
MRS. G. ROSE.

EVERY DOCTOR SHOULD USE ONE

Du Bois, Pa., Jan. 16, 1989.

Lindstrom, Smith Co., Chicago, III.

Gentlemen:—I am using the vibrator every day in my practice and it is all right.

Very truly yours,

McEwen Bldg.

DR. H. A. BRETH.

VIBRATOR IS DOING EXCELLENT WORK

Lindstrom, Smith Co.
Gentlemen:—Your vibrators are still doing excellent work in my office. I have purchased two in the past few months and now I desire another.

Sincerely,
C. S. CARR, M. D.

GOOD FOR ARM AND SHOULDER

Holtville, Cal., Jan. 25, 1909.

Messrs. Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I received the White Cross Electric Vibrator about a week ago, and I am well pleased with it. My arm and shoulder are much better since I have been using it.

Vous truly Yours truly, MARY O. EDGE.

IS FINE FOR HEADACHE

Messra. Lindstrom, Smith Co., Chicago, Ill.
Dear Sirs:—I tried the vibrator for half a
minute and it dispelled in a short time a splitting headache that was troubling me for nearly
two days.

BOTH USE IT DAILY

Terra Haute, Ind., Dec. 11, 1908.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—Your electric vibrator has given entire satisfaction so far, my wife and I each use it daily.
Yours truly,
322 North 7th St. CLANIE W. PEEK.

SAY IT IS ALL WE CLAIM FOR IT

Danbury, Mass., Jan. 18, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I wish to state that the vibrator which I bought from you is all you claim it to be. I have only had it since Dec. 24th, but in this short time it has cured me of a trouble I have had for two years. Thanking you for the good it has done me. I remain.

Yours very truly.

61 West St.

MR. J. F. McKEEVER.

EVERY FAMILY OUGHT TO HAVE ONE

Shicklig, Neb., Dec. 26, 1908.
Lindstrom, Smith Co.
Gentlemen:—The Electric Vibrator No. 4 is received. It is a finer instrument than I expected, and every family ought to have one. I have already found that it will do everything you say about it in your catalog.

Yours truly,
A. LINDSTRAND.

BENEFITS GALLSTONE

Bena, Minn., Nov. 17, 1968.

Messrs. Lindstrom, Smith Co., Chicago, III.

Gentlemen:—I have received a great deal of benefit from the machine received from you for headache, so has my husband for gallstones.

MRS. E. HALE.

IS GOOD FOR INSOMNIA.

Deer Park, Wash., Jan. 1, 1999.

Lindstrom, Smith Co., Chicago, Iil.

Gentlemen:—I received the vibrator all O. K. and am very much pleased with it. I think it will be of great benefit to me as what little I have used it it seems to be helpful to me, espacially the vibrator. When I use it at bed time can sleep so much better than I did before.

Yours very truly,

W. H. LEWIS.

IS GOOD FOR TORTICOLLIS

Lindstrom, Smith Co.

Gentlemen:—The White Cross Electric Vibrator No. 3 which I bought of you several months ago has given entire satisfaction. I have used it for the Torticollis of 15 years' standing and though I am not yet perfectly cured, I have improved so that none can see that there is any fault with my neck.

Yours very truly,

2529 9th St. So.

Minneapolis, Minn.

Minneapolis, Minn. Minneapolis, Minn.

HAS HELPED HIS HEARING GREATLY

Idndstrom, Smith Co.

Gentlemen:—I have a mechanical vibrator which has helped my hearing greatly for which purpose I alone have used it.

Yours very truly,

A. A. CLEVELAND.

OUR VIBRATORS RECOMMENDED BY DOCTORS

Denver, Colo. Lindstrom, Smith Co.

Gentlemen:—I have had two doctors recommend your vibrators.

Yours very truly, MRS. M. JOHNSON, 1502 Lincoln Ave.

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TESTIMONIALS

USES VIRRATOR FOR COLDS, HEADACHES, ETC.

Lindstrom, Smith Co.

Gentlemen:—Some time ago my wife purchased of you one of your No. 11 Vibrators, and its use has done her a world of good. You can use us for reference at any time. She makes us all "vibrate" for incipient colds, headaches and many other allments.

Sincerely,

JOHN M. KILLITS.

HAS GIVEN IT A COMPLETE TRIAL

St. Petersburg, Fla.

Lindstrom, Smith Co.

Dear Sirs:—I duly received the Vibrator No. 2 and have given it a complete trial, and am very much pleased with it.

Yours truly, F. T. LOCKYER.

RELIEVES STIFF BACK

Lindstrom, Smith Co,
Gentlemen:—I have had your No. 11 Vibrator
for two months and have not used it as steadily
as I should, but will say my back was so stiff
that I had trouble in stooping down and getting back up, but that has now all left me.
Yours respectfully,
GEO. M. LONGSHORE.

HAS HAD MUCH RELIEF FROM IT

Asheville, N. C.

Lindstrom, Smith Co. Gentlemen:—The party I ordered the vi-brator for is very much pleased and has had much relief from same.

om same.

Very truly,
MRS. JOHN H. MISKELLY,
Cherokee Inn.

IS DOING HIM GOOD

Lindstrom, Smith Co.

Gentlemen:—I am well pleased with the vibrator and it is doing me good. It is a No.

Yours very truly.

J. B. MATTOCKS.

161 N. Main St.

VIBRATOR WORKS FINE

Lindstrom, Smith Co.

Gentlemen:—Vibrator No. 4 was received September 1st and came in good order.

I want to say that the vibrator works fine. I feel that I have a prize.

Yours very truly.

Mrs. B. MORRIS,

221 Peorla Ave.

THINKS IT A GOOD MACHINE

Hamilton, Mont.

Lindstrom, Smith Co.
Gentlemen:—I received my vibrator No. 2, and am very well satisfied with it. I think it is as good a machine as can be bought for the

Thanking you for your trouble, I remain, Yours very truly, J. W. McCLARY.

VIBRATOR IS IN FINE SHAPE

Lindstrom, Smith Co.

Dear Sirs:—My vibrator is in fine shape; would not be without it.

Yours very truly,

MRS, MORAN.

IS WELL SATISFIED WITH VIBRATOR

Newberry, Fla.

Lindstrom, Smith Co.

Gentlemen:—I am very well satisfied with your Vibrator. Enclosed find check for which please send me a No. 18 Vibrator.

Yours very truly, C. N. McARTHUR.

RELIEVED CRAMP IN STOMACH

Junction, Texas.

Lindstrom, Smith Co.

Gentlemen:—I tried the vibrator on one person for cramp in stomach and cured it in three minutes and he has not had it since.

Yours very truly,

REV. S. B. McKEE.

VIBRATOR WORTH TEN TIMES ITS COST

Modesto, Cal.

Lindstrom, Smith Co.

Gentlemen:—I received the foot plate and chair attachment. I thank you very much for the generous manner in which you have responded to my orders for goods.

The Vibrator has overcome the Chronic Constipation at last. I did think for a while my bowels were paralyzed. The Vibrator has cured the Neuralgia and Sciatica, which I was suffering from. I was almost on the verge of insanity.

The Vibrator has been worth ten times its cost.

Very respectfully.

MRS. M. A. MUSGROVE,
R. No. 1, Box No. 97.

VIBRATOR DOES GOOD IN SHORT TIME

Throckmorton, Tex.

Lindstrom, Smith Co.

Gentlemen:—The machine was received in good shape, and when I become perfectly acquainted with the working of it, I think I will like it very much. I think it has done me considerable good already.

Very truly yours, J. B. MASSIE.

THINK IT HELPED HER

Lindstrom, Smith Co.
Gentlemen:—I received the vibrator all right, and like it fine. I think it helped me.
Very truly yours,
MRS. W. T. McKAMEY.

IS VERY MUCH PLEASED WITH VIBRATOR

Grass Valley, Cal.

Lindstrom, Smith Co.

Dear Sirs:—Enclosed you will find remittance for Hair Dryer I previously wrote about. I am very pleased with my vibrator and find it beneficial. Send by Wells Fargo Express.

Thanking you, I am,
Yours sincerely,
M. MONAHAN,
122 Bennet St. Lindstrom, Smith Co.

122 Bennet St.

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Testimonials

Continued

BENEFITS ACHING FEET Equality, III.

Equality, III.

Lindstrom, Smith Co.

Gentlemen:—I received the vibrator today. I have had an electric battery that belonged to another doctor here that I had been using, and my doctor said he was going to order one of those when his drug man came. Well, he has seen my vibrator, and he wanted to know if I liked it as well as I did Dr. Campbell's, and I told him a whole lot better. So he took one of your books and said he was going to have one of them.

A lady was here this morning, and she said her feet had burt her so much, so I told her how the vibrator helped my feet, and she said she would come down and let me try it on them, and would get herself one.

Yours respectfully,
MRS. BLANCHE W. HALES.

THE MACHINE IS BETTER THAN EXPECTED

Spokane. Wash., May 16, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I must say that I find the machine better than I had expected. The current is as strong as I can endure—and the vibrations just right. Already my back is beginning to improve and I sleep so much better.

Respectfully.

420 1st Ave.

Respectfully, MRS. IDA JONES.

THE WHITE CROSS VIBRATOR IS A WINNER

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—This will introduce to you Mr.

Jack E. Magee, who has been in this city for
some time and is now on his way east. He has
used my No. 3 machine and is destrous of buying a No. 18. There is a demonstrator in my
neighborhood for another vibrator and the difference in the two articles is a boost for the
Lindstrom, Smith goods.

Yours respectfully.

408 Jackson St. SHERMAN SCOFIELD.

WOULD NOT TAKE \$1,000 FOR IT

Los Angeles, Calif. May 6, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I bought one of your No. 8 Vibrators last June and at that time I was a nervous wreck: was taking three treatments a week from one of the best physicians in Los Angeles (\$2.00 for each treatment), and as they were helping me I thought it would be far cheaper to have the vibrator in my own home, hence my order. I received the machine on the 17th of June and began to take both the vibratory and electric treatments according to directions. Today I can honestly say I am cured of my nervous trouble entirely. I am mentally and physically a stronger woman. My case was of 14 years' standing. Would not take \$1,000,00 for my vibrator if I could not get another like it.

Very truly yours.

1667 Huron St.

C. H. FREER.

IS EXCEEDINGLY WELL PLEASED WITH IT

Fort Scott, Kans., June 26, 1909.
Lindstrom, Smith Co., Chicago, III.
Gentlemen:—You will, no doubt, remember that I communicated with you a few weeks ago in regard to purchasing a vibrator. I have purchased your vibrator through our Gas & Electric Company and am exceedingly well pleased with it. I am enclosing money order for \$1.95 for which please send extra applicators.

Very truly yours,

ROSE ALLEN.

IS PLEASED WITH THE GUTFIT

Fort W. H. Seward, Alaska, Aug. 13, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—The Vibrator No. 4 reached me
yesterday all O. K. 1 am vory much pleased
with the outfit. Yours truly.

Co. "A," 22nd Infantry, U. S. A.

RECEIVED MORE BENEFIT FROM THE VI-BRATOR THAN FROM DOCTORS

Wolcott, N. D., June 1, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Dear Sirs:—About two weeks ago we received
the vibrator and it has done more for my mother
than all the doctoring she had done in a year.
She is now able to get around after being confined to the house for a year.

Very truly yours.

E. E. WINSOR.

IS JUST WHAT SHE NEEDED.

Port Huron, Mich., July 29, 1909.
Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I like my vibrator. I think they are just what is needed for the sick and suffering.
Yours fraternally,
828 Chestnut St.
MRS. A. KRESS. ing. \$28 Chestnut St.

NASAL CATARRH AND WATERY EYES

Appleton, Wis. Feb. 4, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—The vibrator came all right. I have used it for nasal catarrh and watery eyes and headaches, and it has belped them. I believe it will be a good thing. Yours truly,

J. H. HOLDEMAN.

CONSTIPATION OF THREE YEARS' STANDING

Lindstrom, Smith Co., Chicago, III.

Dear Sirs:—I have been using one of your No. 8 vibrators for over a month. I find it very beneficial for the stomach and bowel trouble. It has cured me of Chronic Constitution of over three years' standing. I am feeling fine. The Faradic power has done wonders for me in with the vibrator. The chair is surely a success. I would surely recommend it to anyone that is troubled with stomach trouble and constitution.

Juneau, Alaska. W. E. TOWNSEND.

IS JUST WHAT HE HAD BEEN LOOKING FOR

Pittsburg, Kan., June 7, 1902.

Lindstrom, Smith Co., Chicago, Ill.

Dear Sirs:—My order for No. 26 Vibrator received May 21st. I did not inspect the machine at the express office but took it home as I had confidence that it would be all right and it was I read over the directions and started the machine and I want to say that it works fine. I have taken two treatments every day since I received it and I think it is just what I have been looking for.

Yours truly.

F. W. McKEF.

IS DELIGHTED WITH ITS MARVELOUS SIM-PLICITY

Messrs. Lindstrom. Smith Co., Chicago, Ill.
Dear Sirs:—Vibrator No. 18 to hand and will say that I am more than pleased—am simply delighted with its marvelous simplicity. I have not had time to use it much yet, but feel sure it will do me lots of good. If I am called on I cannot help but speak words of praise for your company and machines.

Respectfully.

W. B. ENOCH.

W. B. ENOCH.

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Respectfully.



TESTIMONIALS

IS FINE FOR DEVELOPMENT

Brookfield, Mo., Jan. 13, 1909.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—I am much pleased with your vibrator. I have used it for five weeks. My face and neck are filling out and I sleep better. MRS. M. L. REGER.

GIVES ENTIRE SATISFACTION

So, Berkeley, Cal., Oct. 2, 1968.

Lindstrom, Smith Co., Chicago, III.

Gentlemen: "The No. 29 White Cross Yibrator purchased of you recently, has arrived here and is giving entire satisfaction. Truly yours.

3226 Kills St. L. D. DAVIS.

WOULD NOT PART WITH IT

Riverside, Cal., Jan. 8, 1909.

Messrs, Lindstrom, Smith Co., Chicago, Ill.
Gentlemen:—I have the vibrator and would not part
with it for anything, as it has helped me more than anything elso I have tried.
177 N. Orango St. MRS, C. R. GRAY.

VIBRATOR IS THE BEST HE HAS EVER SEEN

Three Rivers, Mich., Dec. 9, 1908,

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen: The vibrator reached me yesterday all O.K. It is the best machine I have ever seen. Yours truly, M. A. HOBBINS.

INTERESTS HIS NEIGHBOR PRIESTS IN HIS MACHINE

Rending, O.,

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen: Will you please send me another catalog as I have given mine to one of my neighbor priests, who, when visiting me, became interested in the vibrator. I am using it and it does me much good. I am well bleased with it.

C. W. WEIDER! OLD.

Marshall, Tex., Dec. | 908, Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:-Vibrator came and it works fin-Yours truly, DR. J. R. MAYHEW.

Muskogee, Okla., April 29, 1909.

Lindstrom, Smith Co.

Dear Sirs:- Nearly two years ago while at Columbus, Miss., I bought one of your vibrators. It gives complete entisfaction. Yours truly

627 S. 2nd Street,

CHAS. E. EVANS.

Cripple Creek, Colo., Dec. 5, 1908.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen: —I am in possession of one of your vibrators which you will remember was ordered through our Company a month ago. The machine has proven entirely satisfactory in every particular. F. M. HOFFMAN. Box No. 622.

IS AS GOOD AS THE HIGH PRICED MACHINES

Wilmerding, Pa., Nov. 14, 1908.

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen: -Your vibrator is as satisfactory as the high priced machine which I have used before. Westinghouse Ave. MRS, M. G. HOAG.

INTERESTS HIS FRIENDS AND DOCTOR IN IT

Holyoke, Mass., Jan. 12, 1909,

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—The White Cross Vibrator which you sen's me, I received yesterday all right, and I like it very much, I thank you very much for sending it so promptly. My friends are all very interested and wouldn't wonder if you sent more to our town. My doctor also recommends their and said he wished he could see one in every house.

Very truly, MRS. W. O. JUDD.

THE No. 26 IS A BEAUTY

Oklahoma City, Okla., Sept. 14, 1908,

Lindstrom, Smith Co., Chicago, Ill.

Gentlemen:—The No. 25 is certainly a beauty for purpose intended. The No. 31 is a hummer and I should have been possessed of this long ago. Yours truly, H. G. COFFEEN.

THE No. 31 GIVES SPLENDID SATISFACTION

Guthris Kiropraetic College,
Guthric, Okla., Dec, 15, 1908.

Messrs, Lindstrom, Smith Co., Chicago, Ill,
Gentlemen:—My Electric Vibrator No, 31 is giving splendid satisfaction. Respectfully.

DR. SAM WHITMORE. Box 97.

GIVES GOOD SATISFACTION

Lisbon, N. Dak.,

Lindstrom, Smith Co., Chicago, Ill.

Gents: Am very much pleased with the working of Vibrator; gives good satisfaction. Yours very truly, DR. A. AUGER.

WOULD NOT BE WITHOUT IT

New Britain, Conn., July 27, 1908.

Lindstrom, Smith Co., Chicago, III.

Gentlemen: Your Vibrator No. 29 received all right.
Would not be without it. My friend would like one No. 4
as they have no electric current in the house. Please send
me the price of No. 4. Yours truly,
25 Grand St.

WM, ATKINSON

GOOD FOR SANITARIUM

Troy, N. Y., Feb. 3, 1909.

Messrs, Lindstrom, Smith Co., Chicago, Ill,
Gentlemen:—We have your favor of the 29th ult. and
would say that we received the No. 18 autit in good shape
today. We, as well as the Sanitarium people who purchased it, are very much pleased with the outfit.

Yours truly,
Clark House.

R, F, LAWRENCE & CO.

PHYSICIANS LIKE DUR NO. 18 VIBRATOR

Hobart, Okla., Nov. 27, 1908,

Lindstrom, Smith Co., 253 LaSalle St., Chicago, Ill.

Dear Sirs:—I am in receipt of the combination outfi No. 18. Am very very well pleased with same, DR. I. C. TROSPER. Yours truly.

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Lindstrom, Smith



TESTIMONIALS

IT IS EASY TO LEARN TO OPERATE

Winter Park, Flu.

Lindstrom, Smith Co.

Dear Sirs:—I received the vibrator in good condition, and am perfectly delighted with it. Have learned to operate it all O. K.

Very respectfully, MRS E. S. HALL.

IS PLEASED WITH NO. 18 VIBRATOR

Lindstrom, Smith Co.

Gentlemen:—Am much pleased with my outfit No. 18, No one can reasonably ask more than it gives, My brother, L. A. Hanks, president State Bank, Madison, Wis., will order one soon.

Yours truly,
A. P. R. HANKS,
Senior Capt, U. S. Revenue
Cutter Service,
U. S. Life Saving Station.

IS HAVING GOOD SUCCESS WITH IT

Lindstrom, Smith Co.
Gentlemen:—The vibrator came to me in good shape, and am having good success with it.
Yours respectfully, MRS. M. M. HAZARD.

BENEFITS ACHING FEET

Equality, Ill.

Lindstrom, Smith Co.

Gentlemen:—I received the vibrator today. I have had an electric battery that belonged to another doctor here that I had been using, and my doctor said he was going to order one of those when his drug man came. Well, he has seen my vibrator, and he wanted to know if I liked it as well as I did Dr. Campbell's, and I told him a whole lot better. So he took one of your books and said he was going to have one of them.

A lady was here this morning, and she said her feet had hurt her so much, so I told her how the vibrator helped my feet, and she said she would come down and let me try it on them, and would get herself one.

Yours respectfully.

Yours respectfully, MRS. BLANCHE W. HALES,

USES VIBRATOR FOR HIS EARS

San Francisco, Cal.

Lindstrom, Smith Co.

Gentlemen:—I feel the effect of the vibrator already. My head feels clear by using the wibrator on my ears twice today, and hope it will still come out better.

Yours very truly, G. N. HERZOG.

THEY ARE ALL SATISFIED WITH THEIR VIBRATORS

Ft. Worth, Tex.

Gentlemen:—I believe it is your aim to make your goods satisfactory to all of your customers, at least your courteous treatment when I was corresponding with you last year was always thoroughly businesslike.

Two of my Missouri and Kansas friends of farmer years have purchased machines, and I think they were as highly pleased with their machines as I was with mine.

Yours very truly, JULIAN KIRVEN, 199½ W. Ninth St., care C. R. O. & G. Ry.

IT WORKS FINE

Evansville, Ind.

Lindstrom, Smith Co.

Gentlemen:—I am very well pleased with the No. 11 Vibrator. It works fine, and I think in time it will benefit both myself and wife.

Yours respectfully. JAMES E. HOWE.

IT SEEMS TO HELP HIS WIFE

Du Quoin, III.

Lindstrom, Smith Co.

Gentlemen:—My wife, for whom I purchased your electric vibrator, has been using same and it seems to be helping her some.

Yours very truly, D. W. HAWKINS.

IS GIVING TREATMENTS WITH NO. 8.

Lindstrom, Smith Co.
Gentlemen:—Electric Vibrator arrived all right, I am very much pleased with it and am giving treatments.

Very truly yours,
M. MYRTLE JUDD.

IS MORE THAN SATISFIED

Trinidad, Colo.

Lindstrom, Smith Co.

Dear Sir:—I have purchased the vibrator my sister purchased from you and am more than satisfied with it and would like you to send me your book and catalog.

Yours very truly, ISAAC HAGAR.

FEEL GREATLY IMPROVED FROM NERV-OUSNESS

Lindstrom, Smith Co.

Dear Sirs:—I received the No. 4 Vibrator in good condition about one month ago, and feel greatly improved from nervousness.

Yours very truly. JOHN HARKNESS.

THEY USED THE VIBRATOR MORE THAN A YEAR WITH FINE RESULTS

Lindstrom, Smith Co.

Gentlemen:—I have used your vibrator for more than one year, and like them very much, and have treated and cured several people with them.

Respectfully,

J. W. LIPPINCOTT,

118 E. Mill St.

ORDERS ANOTHER VIBRATOR

Lindstrom, Smith Co.

Gentlemen:—I received the apparatus No. 11 and am very pleased with it. I have shown it to my friends and they like it very much.

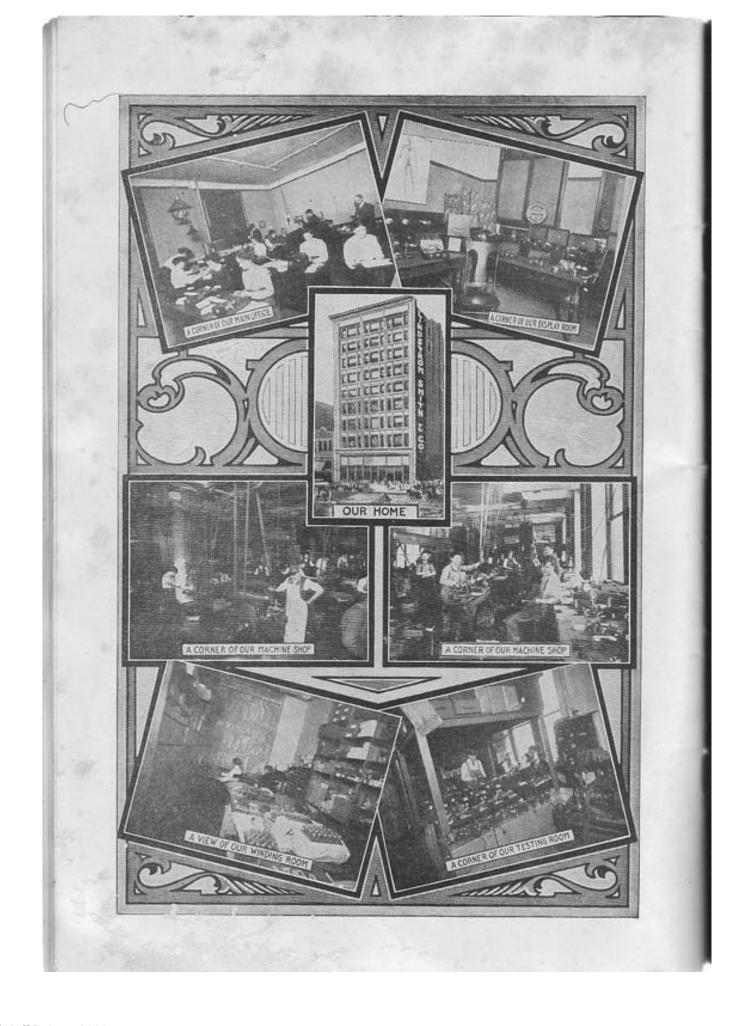
Now I want you to send me another, exactly the same as the one sent, with the same instruments, including the glass tube for the ears, as well as the instruction booklet. I also begyou to send me two catalogs describing electrical apparatus of high frequency, which I suppose you can get for us, as I believe you make them. I wish to buy some of that kind of machines. I beg you to make shipment by return mall.

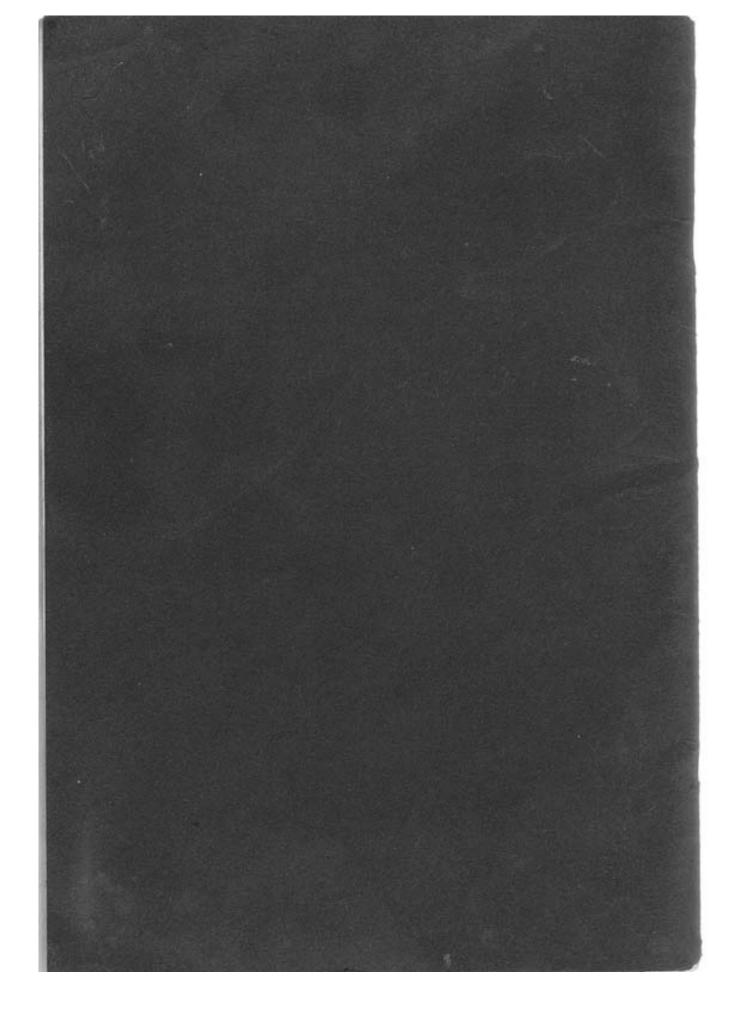
Yours very truly,

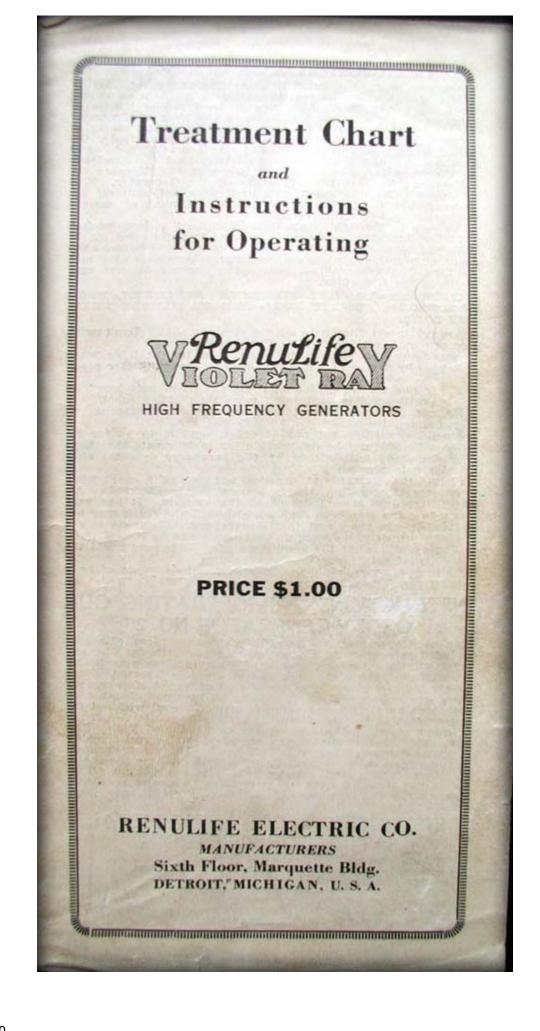
MRS. BEATRIZ HIJAR Y HARO de CHAVERO, lst Liverpool No. 2.

P. O. Box No. 149.

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INSTRUCTIONS FOR OPERATING

Connect plug of Generator in a lighting socket. Either Connect plug of Generator in a lighting socket. Either direct or alternating current is satisfactory. Turn on switch at light. Then insert Electrode in hard rubber handle of Generator. Turn adjustment knob on top plate of Generator to the right, or clockwise, until vibrating spring starts to operate. The farther the knob is turned in, the greater the strength of the current. Should the current not come through into the Electrode immediately, hold the Electrode in the hand for a short time to warm it up. Turning the adjustment knob to the left shuts off the Generator. This adjustment knob is not a switch; it does not shut off the current, but is simply to regulate the amount of current delivered by the Generator. delivered by the Generator.

As soon as through using, turn off current at lamp socket. If the Generator stops when current is not turned off, be sure and turn off current at electric light socket before commencing to adjust the controlling knob; otherwise, an arc may be formed at the contact points and serious damage may incur to the Generator.

IMPORTANT-TO GET MAXIMUM STRENGTH PROM ELECTRODE, ALWAYS HOLD END OF HANDLE NEAR-EST CORD.

Always insert Electrode with a straight push. Don't twist,

Remove with straight pull. Don't twist. Never use this Generator when in a bath tub or when grounded by means of a radiator, electric fixtures, water pipes,

Never use the Generator on the scalp when hair has been treated with a tonic containing more than 40% alcohol.

Do not oil this Generator under any circumstances.

does not require oil.

Should Generator get out of order, send it to us for re-pairs. We will not be responsible for instruments that have been tampered with either by the purchaser or some electrical repair concern.

Should the Electrode at any time not give off a spark when Generator is operating, the fault is with the Electrode. Air has gotten into it and destroyed the vacuum. It has very likely in some way been cracked, although the crack may not be visible. In the event that Generator or Electrode is not working properly, we suggest that you write us immediately, telling exactly what the conditions are necessity of returning Generator to us. This may avoid the

Talcum powder should be dusted over the surface of body being treated, to allow free movement of glass electrodes.

INSTRUCTIONS FOR OPERATING OUR OZONE GENERATOR NO. 25

Ozone Generators are packed with nose piece attached included separately is a small glass piece with flat disc end for inhalations through mouth. This nose piece may be removed from rubber coupling and mouthpiece inserted. Place rubber bulb on glass tip at lower part of barrel of generator. Place one teaspoonful of Pineneedle oil in upper chamber by detaching nose piece and using funnel. This oil will last for

a considerable length of time.
Insert stem of ozone generator in handle of Violet Ray generator, same as any other electrode. Hold barrel chamber of ozone generator firmly in left hand. This causes sparks to jump from inner vacuum to outer wall, creating the ozone. Turn on current and agitate bulb with right hand. This forces the ozone into the upper chamber, where it is filtered through the oil. A pleasing, purifying, powerful agency re-

INSTRUCTIONS FOR USING METAL SATURATOR ELECTRODE

Turn on current by means of adjusting knob.

Grasp metal electrode firmly in the hand and insert in handle of generator. Pull out electrode before turning off current. Do not use this electrode when in contact with metal or when grounded by means of water or electric fixtures. Do not attempt to adjust controlling knob with one hand before willing the electrode from the handle. pulling the electrode from the handle.

TREATMENT CHART

The following directions for the application of High Frequency Electricity are compiled from the highest authorities on the subject. To obtain the best results, treatment should be taken strictly in accordance with this Chart,

A single application of High Frequency Electricity, while it may give some relief, should not be expected to accomplish miracles any more than one spoonful of medicine. It must be followed by other treatments at regular intervals to obtain the desired results.

In treating surface of the body, always keep the Electrode moving slowly.

High Frequency Electricity is a germicide, sanitary rules must be followed in the care of Electrodes. To sterilize them, immerse in weak solution of carbolic acid or Then wipe thoroughly with clean cloth or absorbin Lysol.

ent cotton.

Every Electrode throws a spark if held away from the ody. The farther away the Electrode is held, the longer the spark and more caustic,

Never insert or remove an Electrode from an orifice of the

body while the current is turned on.

Electrodes that are to be used internally should be lubricated with cold cream or vaseline before inserting.

Thefollowing terms will be used below:

CONTACT-Means keeping the Electrode in direct contact with the body,

LOOSE CONTACT-Means that the Electrode barely touches the body. This may be obtained by wrapping the electrode in a handkerchief, piece of chamois or linen.

WHEN ONE-QUARTER INCH SPARK is mentioned, the adjustment knob on the Generator so that the Electrode will throw a spark when held one-quarter inch away from the body and no farther.

FOR ONE-HALP INCH SPARK, adjust the knob so that the Electrode will throw a spark to the body when it is held

one-half inch away.

A MILD CURRENT is when the Generator is just operating. and a STRONG CURRENT is when the adjustment knob is screwed in completely.

MEDIUM CURRENT is when adjustment knob is screwed in about half way.

To obtain one-quarter inch spark, treatments may be taken through the clothing approximately one-quarter inch in thickness, etc., causing the spark to jump through the clothing to the body-or, if one-half inch spark is desired, treat through one-half inch of clothing.

In all cases use a current which is tolerable by the patient. If strong current is not tolerable at first use a medium current. It will be found that patient can stand much stronger

current after first few treatments.

NOTE-For more complete directions and technique for treating over 200 diseases and symptoms in which High Frequency has been employed, we would refer you to "A Working Manual of High Frequency Currents" (by DR. NOBLE M. EBEKHAKT), who is the highest authority in the world on this subject. 320 pages (over 60 pages of illustration). Fifth and new edition. Handsomely bound. Price, \$3.00. Postage, 10 cents.

ABSCESSES-To arrest growth of abscesses, use Electrode No. 1 in contact with the surface of the body on the part affected and surrounding area, using a strong current, for from 7 to 10 minutes, twice daily. Use enough current to get the effect of the heat generated.

ACNE (PIMPLES)—Cauterize the larger pustules with Electrode No. 14 with one or two strong, sharp sparks to each pustule. Regulate the strength of spark in accordance with toleration of patient. Then apply Electrode No. 1 in loose contact with a medium current for 10 minutes over the entire surface affected. Treatment every third day, Cure may be expected in practically every case.

ADHESIONS—Where adhesions follow operations or inflammatory conditions, use Electrode No. 1 with a strong current, keeping the tube in light contact, passing back and forth over the area involved, for from 7 to 10 min-

utes twice or three times daily.

ALOPECIA (FALLING HAIR)-Treat over the scalp with Electrode No. 2, moving rapidly. Use for 5 or 6 minutes twice daily, with a medium current, keeping the Electrode in loose contact with the scalp,

AMENORRHEA-Use Electrode No. 9 with a medium current daily. Never treat for more than 5 minutes each treat-ment. Always have Electrode inserted before current is turned on. Treat also with Electrode No. 15 in contact with the lower part of spine, daily for 5 minutes, with a strong current.

ANEMIA-Treat over the entire body through thin clothing, with as strong current as possible to stand, twice daily, for 7 minutes each treatment. Treat particularly along the entire length of spine, with as strong current as possible, using Electrode No. 15. Results should be noticed in either 10 to 12 days' treatment. Ozone inhalations twice daily with Ozone Generator for 5 minutes' treatment are of exceptional value.

ARTERIOSCLEROSIS (Hardening of the Arteries)-Hold metal Electrode in the hand for 10 minutes twice daily. Use a strong current. This saturates the body with electricity and gives the arteries a cellular massage which will lower the blood pressure and soften the arteries. Treatment over the entire body with Electrode No. 1 with mild current is also very beneficial. Be careful of your diet. Don't over-eat.

ASTHMA-Treat over the chest and throat glands with Electrode No. 4 in light contact, for 10 minutes daily, with as strong current as possible, till surface reddens. Also treat over the back between shoulder blades and down as far as waist-line. OZONE inhalations should be taken twice daily, for 5 minutes, from OZONE Generator.

ATAXIA-Apply to the spine, abdomen and back of legs with Electrode No. 1. Treat first with daily treatments for 10 minutes with as strong current as patient will tolerate, in loose contact with the body. Gradually de-

crease treatments to three times a week.

ATONIC DILATION of the STOMACH—In this disease we have complete relaxation of the motor fibres of the stomach, and treatment must be that which will cause them to actually contract and regain their normal tone. Treat with Electrode No. 1 for 5 minutes daily, over the area of the stomach, using as strong current as is tolerable, in loose contact.

ATROPHY of the OPTIC NERVE-Close the eyes and use Electrode No. 16 or 17, with a mild current, for three minutes three times daily. Hold the Electrode in close contact with the eye-lids, and do not turn on current until Electrode is in contact with them. Turn off current before removing.

ANUS, PISSURE OF-Use Electrode No. 6 with medium current, daily; never over 5 minutes each treatment. Turn off current before inserting or removing Electrode.

BALDNESS-(See ALOPECIA.)

BARBER'S ITCH (SYCOSIS)—Tie handkerchief or piece of linen over Electrode No. 1 and treat over the entire surface affected, in light contact, with a strong current, 3 to 5 minutes, twice daily. Treat until you observe destruction of tissue, and should face become a trifle sore, lengthen the time between treatments,

the boil as well as on the boil itself, with Electrode No.

1, in contact, with a medium current, for 10 minutes
twice daily. Soreness should be removed in one or two treaments, and the boil will come to a head much quicker,

BRONCHITIS Treat with Electrode No. 1 over the chest and back, for 10 minutes four times daily. Treat with a strong current through one-quarter inch clothing until surface reddens. OZONE inhalations from OZONE Generator should be used, and are invaluable in the treatment of Bronchitis. Relief should be felt after one or two treatments.

BIRTH MARKS-Treat over the surface with Electrode No. 1 in loose contact, with a strong current, for five minutes daily. Considerable time is required to remove Birth Marks and treatments must be persistent.

- BLADDER DISEASE (CYSTITIS)—Local treatment over the Bladder and lower spine with Electrode No. 1 with strong current, in contact, for five minutes twice daily. No. 7 Electrode may be also used with excellent results, using for five minutes twice daily, with medium current. Inflammation is removed and urine clears very quickly in most cases.
- BLACKHEADS—Use Electrode No. 1 in contact with medium current, twice daily, for five or seven minutes. Ordinary massage treatment may be used in conjunction with the treatment of High Frequency. Face should be thoroughly cleansed with good quality soap and hot water before applying Violet Ray.
- BURNS—Treat immediately after the burn, directly on the burned area, with Electrode No. 1 with medium current, for three or five minutes. Following this with treatments of more duration and strength for one-half hour. This will remove soreness from the burn and help it to heal rapidly.
- BUNIONS—Use Electrode No. 1 or 16 in loose contact with the Bunion, for 8 minutes, twice daily, using a strong or medium current. Soreness is removed very quickly, also the swelling.
- BLEPHARITIS (GRANULAR EYE-LIDS)—Use same treatment as for Atrophy of Optic Nerve.
- CALLOUSES OR CORNS—Treat with Electrode No. 1 or 14 with a long, sharp spark, with as strong current as possible to stand, directly on the callous, for three or four minutes twice daily. Besides removing soreness almost immediately, it will remove the corn or callous if treatment is persistent.
- CANKERS—Use Electrode No. 1 in contact with a medium current, twice daily, for three minutes each treatment.
- CARBUNCLES—Treat with Electrode No. 1 in contact, with a medium current for seven minutes, twice each day. Also treat around inflamed area, keeping Electrode moving rapidly back and forth. This should make an appreciable difference in the pain and promote an early ripening of the carbuncle.
- CARCINOMA (MILD CANCER)—Removal of cancer requires application of No. 14 Electrode with shower of hot sparks causing caustic fulguration. Do not treat unless under supervision of physician,
- CATARACT—Benefit may be expected from the High Frequency current in a reasonable percentage of cases if applied in the early stages of cataract. For treatment, see Eye Diseases.
- CATARRH—Inhalations from ozone generator twice daily for ten minutes' duration each treatment, also treat bridge of nose and forehead with No. 1 in contact. Relief may be expected in every case and cure in a large percentage of cases.
- CHAPPED HANDS OR PACE—Use Electrode No. 1 in contact for seven minutes daily with a medium current moving slowly over chapped area. This treatment should be used in conjunction with creams, etc.
- CERVICITIS—Five minute treatments every other day with Electrode No. 9 for never more than five minutes' duraation each treatment. Use a mild current. Care must be taken that electrode makes contact with cervix.
- CHILBLAINS—Use No. 1 Electrode with a current strength capable of producing one-half inch spark. Keep the electrode in contact with the skin, moving it slowly as desired. Treat for ten minutes until relief is manifested and repeat daily. A cure may reasonably be expected in practically every case.

 CHOREA (ST. VITUS' DANCE)—General treatment with a
- CHOREA (ST. VITUS' DANCE)—General treatment with a sharp, stimulating spark to the spine, abdomen, and extremitles for about fifteen minutes every other day. Treat through the clothing. Ozone from our ozone generator with three-minute inhalations daily is a valuable adjunct.
- cold extremities—Using Electrode No. 1 held one-quarter inch above the surface with a strong current until the surface reddens will give immediate results. Treatments should be continued daily.

COLD IN HEAD-Apply No. 1 Electrode above the eye and sides of face in contact with a medium current for ten minutes twice daily. Inhalations from ozone generator for ten minutes four times daily. Results should be expected very quickly.

COLD IN LUNGS-Treat chest and back through medium thick clothing with Electrode No. 1, using a strong current for ten minutes twice daily. Inhalations from ozone generator four times daily for ten minutes each treat-

CHLOROSIS-Same treatment as for Anemia.

COLITIS (INFLAMMATION OF COLON)-This is a condition which does not yield to ordinary methods but which has proved susceptible to the high frequency current. Use No. 1 through clothing for fifteen minutes daily over bowel area with a medium strong current. When improvement takes place, continue three times a week. Material improvement should be expected in practically every case.

CONSTIPATION-Electrode No. 1 to abdomen in contact for ten minutes daily. Move Electrode slowly from right to left. Follow by Electrode No. 7 in rectum with medium current for five minutes daily, inserting or removing Electrode, Turn current off while

CONJUNCTIVITIS (INFLAMMATION OF THE EYE)-Use Electrode No. 16 or 17 in contact with the closed eyelids for three minutes four times daily. Have electrode in contact with the eye before turning on current and turn off current before removing.

CORNEAL OPACITY-Same treatment as Blepharitis.

CONVALESCENCE-Use Electrode No. 1 with a medium strong current through the clothing so as to produce a spark to the whole body for ten minutes three times daily. This will aid the patient in regaining strength.

CYSTITIS-See Bladder Diseases.

DANDRUPP-Treat over the entire scalp with Electrode No. 2, moving rapidly. Use a medium current for from five to ten minutes. Daily treatments are advised. Results should be expected in ten days' treatment. Should the scall become irritated from too frequent treatments, use milder current for slightly less duration.

DEAPNESS (CATARRHAL)—Use insulated ear Electrode No. 21 in the ear as far as possible to insert with a mild current for three minutes daily. Be sure and have electrode inserted before turning on current and turn off current before removing. Follow this treatment with Electrode No. 1 in contact behind the ear with a medium current for five minutes twice daily. Ninety per cent of the cases treated will yield remarkable results. Compiete cures may not always ensue, but improvement will be marked in practically every case. Should the sensation of heat become too great, stop treatment for a time. The roaring sound should cease after one or two treatments.

DIABETES-Apply over abdomen with Electrode No. through thin clothing with a strong, sharp spark for ten minutes daily. Three to six months is the average time required to cause sugar to disappear. A cure should not be expected. Observe proper diet.

DYSPEPSIA-Electrode No. 1 in contact with a strong current for twelve minutes daily. Treat over the stomach and solar plexus. Daily inhalations of ten minutes' duration from ozone generator are very valuable.

EARACHE—Use ear Electrode, inserted in the ear as far as possible for three minutes with a mild current. This is

sufficient to stop the ache in practically every case.

EAR DISEASES—The principal diseases of the ear which are benefited by the applications of the Reunlife Violet Ray Generator are catarrhal deafness, tinnitus aurium (roaring sound in the ear), and earache. Method of treating each of these is given under proper heading.

ECZEMA-Treat over the area affected with Electrode No. 1 through thin gauze with a mild current for two minutes daily. If itching is intense, raise electrode and use the sharp spark for half minute.

ENLARGED PROSTATE—See Prostatic Diseases.

EPILEPSY-Electrode No. 1 applied to the brain and along the spine for five minutes with a medium current every

other day. A cure should not be expected.

EYE DISEASES-in treating diseases of the eye, use an eye electrode in contact for not more than three minutes each treatment. Treatments may be taken twice daily. Be sure to have electrode in contact with the closed eyelida before turning on the current and turn off the current removing.

EPITHELIOMA (CANCER OF THE SKIN)-Use No. 1 Electrode with as long and sharp a spark as patient can tolerate for three or four minutes each treatment. Treat every other day. The X-ray is the best method of treatevery other day. The ment in these cases.

PALLING HAIR—See treatment for Alopecia. PURUNCULOSIS—See treatment for Boils.

PISTULA-Same treatment as for Anal, Fissure of.

FROST BITES-Use Electrode No. 1 with short spark. Hold about one-quarter inch from the body with a medium current. Treat hourly for from three to five minutes each treatment.

GLEET-Use Electrode No. 7 or 11 for never more than five minutes daily. Use medium current. Apply lubricant, such as cold cream, before inserting. Unless under di-Unless under direction of physician, we would advise that No. 7 Electrode be used and not No. 11, as it is a much easier form of treatment and will give results just as quickly. Always turn current off before inserting or removing electrode.

GOITRE-Treat around and on the goitre with Electrode No. 1 or No. 4 in contact with a strong current for ave minutes daily. After this treatment, raise the electrode about one-quarter inch and treat directly on the goitre with a sharp spark until surface reddens. Results should be apparent in about fourteen treatments and a cure may reasonably be expected in a great majority of cases.

GONORRHEA-(MALE)-Foilow directions given

(PEMALE)-Follow directions given under Cervicitis. GOUT-Treat with Electrode No. 1 in contact for five to ten minutes daily, using a mild current to start treatments and gradually increase the strength with each succeed-

ing treatment.

GRAY HAIR (RESTORE TO NATURAL COLOR)-Use Electrode No. 2, moving rapidly over the scalp for five minutes daily with a medium current. Results will not be noticed until after at least four weeks' treatment. Treatments must be kept up for possibly three or four months, but if continued and used regularly, results may be expected in practically every case.

GRIPPE (INPLUENZA)-Treat over the spine, solar plexus, eyes, and sides of nose with Electrode No. 1 with a medium current and through thin clothing for from five to seven minutes twice daily. Use inhalations from ozone generator twice daily for ten minutes each treatment.

HOARSENESS-Use Electrode No. 4 in loose contact with the throat for five minutes each treatment four times Use a medium strong current. Results should be

apparent in a very few treatments.

HAY PEVER-Use No. 21 Electrode directly in the nose with a mild current for from three to five minutes daily. Also use ozone generator for ten minutes daily each treatment. If used two weeks before the attack of hay fever comes on, this is generally sufficient to prevent the at-It will rolleve if used during the attack.

HYPERTENSION-See Arteriosclerosis.

ment as for Anemia or Chlorosis,

HEADACHES—Use Electrode No. 1 in loose contact for five to ten minutes, moving rapidly over the base of skull at the back of the neck. Also treat for a short distance down spine and wherever the ache is apparent. One treatment is generally sufficient to stop the headache, but if it is chronic, they should be continued every two hours if possible. This method of treatment relieves the possible.

hours if possible. This method of treatment reflects the pressure from the nerves which run from the spine at the base of the skull to all parts of the head.

HEALT DISEASE-If the blood pressure is low, treatments of sharp sparks to the spine for about five minutes twice daily will increase the blood pressure. Also treat with sharp sparks on the solar plexus.

HEMORRHOIDS—They may be relieved with our No. 14 ful-guration electrode. We would advise that they be used

only under physician's care.

HIVES AND RASH-Treat with No. 1 Electrode over the entire area affected, using medium current in contact for from three to five minutes daily,

- INSOMNIA (SLEEPLESSNESS)-Use Electrode No. 1 or No. 15 in loose contact with the back of head and neck for five minutes, followed by a medium current in contact for three minutes over the eyebrows. Also use No. 3 Electrode held in the hand for ten minutes with a medium current.
- IMPOTENCE-Use a No. 1 Electrode with enough current to produce a spark one-quarter inch in length. Keep the tube in loose contact with the surface while it is passed back and forth over genitals, inguinal, and bladder regions and to the lower half of the spine. With the spinal application raise the electrode to get reasonably stimulating sparks. Treat daily for ten minutes each treatment.
- ITCHING-This annoying symptom may be relieved by using a strong current with Electrode No. 1 held one-half inch above the surface so that a shower of sharp sparks strike the itching parts. After this treatment, which should be continued for about one-half minute, use a mild current with the electrode directly in contact for two minutes. Relief is generally immediate although very often only temporary.
- INPANTILE PARALYSIS-Use a spark of approximately one-quarter inch in length and treat through the clothing with strong stimulating sparks to the spine and over all the paralyzed muscles. Treatments should be taken twice daily and of ten minutes duration each treatment. Also use No. 3 metal electrode held tightly in the hand for five minutes twice daily. Very good results should be expected.

INFLUENZA-See Grippe.

INDIGESTION-Follow instructions given under Dyspepsia. IRITIS-Follow instructions given under Eye Diseases.

in souse contact with the throat for ten minutes daily. Inhalations twice daily with ozone generator for ten minutes each treatment. Inflammation in most cases will disappear after very few treatments.

LEUCORRHEA-Follow instructions given under Cervicitis. LICHEN RUBRA (A PAPULAR INPLAMMATION OF THE SKIN)-Follow directions given under Skin Diseases.

LOCOMOTOR ATAXIA—Treat particularly well over the spine, abdomen and back of legs for ten minutes daily. Use a strong current and treat through clothing. High Frequency Liniment is of exceptional value and should not be overlooked. Ten minutes treatment daily, holding metal electrode No. 3 in the hand is of exceptional value Beneficial results may be reasonably expected in a large number of cases.

LOW BLOOD PRESSURE—See Anemia.

LUMBAGO-Treat with Electrode No. 1 through one-half inch ciothing with as strong a current as patient can stand until relief is given. Treat over small of back and have patient assume different positions until he or she can feel comfortable in any position. One treatment is generally sufficient to stop the pain and a cure may reasonably oc expected with continued treatments.

LUPUS (TUBERCULOSIS OF THE SKIN)-Treat over surface with a strong sharp spark from any electrode raised one-quarter inch above surface for three to five minutes.

MASSAGE-Let patient hold metal electrode No. 3 in one hand. Then turn on strong current. Massage in the ususi way. Masseur will draw sparks to the point massaged. Always turn off current before removing electrode from patient's hand. Patient should not be in contact with any metal or grounded object.

- MENOPAUSE (CHANGE OF LIFE)—Mild application of sparks through thin clothing along the spine to the back of head and neck and over the abdominal regions, taking fifteen to twenty minutes for the treatment daily.
- MOLES AND MOTH PATCHES—Electrode No. 1 in loose contact with good strong current for three to five minutes every other day.
- MUMPS—Treat over the swollen glands with Electrode No. 4 in contact. Use medium current for five minutes three times daily. Soreness may be relieved in a short time.
- NASAL DISEASES—These diseases treated under separate heading.
- NERVOUS DISEASES—Treat over the spine, back of neck, and head for ten minutes daily with Electrode No. 1 in loose contact, using a medium current. Also hold metal Electrode No. 3 firmly in the hand for ten minutes daily, using a strong current. Ozone inhalations from our ozone generator for ten minutes daily are of exceptional value and should be taken if possible.
- NEURALGIA—Use Electrode No. 1 over the painful area and spine with as strong a current as patient can stand for ten minutes daily. Treat through underclothing. All treatment is the same for all varieties of Neuralgia and results in practically every case are exceptional.
- NEURITIS—Start treatments directly in contact with inflamed area with a mild current for about three minutes daily. After the first three or four treatments, gradually increase the strength of the current and also increase the length of treatment, raising the electrode a little farther from the surface each succeeding treatment. The first three or four treatments may aggravate the pain but this is a good sign so do not discontinue treatments. One high authority claims a complete cure should be expected in every case of Neuritis.
- OBESITY—Use Electrode No. 1 in direct contact over the entire body for lifteen minutes daily, using a medium strength current. In cases where the reduction in weight is not so great, it will be found that the re-distribution of fatty tissue to different parts of the body will greatly aid bodily comfort.
- PARALYSIS—Treat with Electrode No. 1 through the clothing, using as strong a current as patient can tolerate for about fifteen minutes twice daily. Treat particularly on the paralyzed portions and also on the spine. High Frequency Liniment is very valuable in these cases and should be applied over the paralyzed area before treatment with the Violet Ray. Our experience has been that a great many cases receive benefit.
- POISON IVY—Use Electrode No. 1 with long, sharp spark and strong current for three to five minutes daily.
- PLEURISY-Same treatment as for Pneumonia.
- PNEUMONIA—Treat over the chest and back through the clothing with Electrode No. 1. Use a strong current until the surface reddens. Treatments should be taken twice daily. Also use ozone inhalations for five minutes each treatment twice daily from ozone generator. Relief should be experienced in a fairly short time.
- POST-PRACTURE CONDITIONS—Local application of Electrode No. 1 with a mild current in contact for five minutes twice daily will aid greatly in relieving soreness and help in bringing about a cure in a shorter time.
- POST-OPERATIVE CONDITIONS—Same treatment as for Post-Fracture Conditions.
- PROSTATIC DISEASES—Electrode No. 7 with a medium current for never more than five minutes daily. Use lubricant such as cold cream or vaseline before inserting and always insert electrode before turning on current and turn off current before removing. One high authority claims that ninety-five percent of the cases of this ailment treated by him have been apparent cures and no case in which perceptible improvement was not noticeable.
- PSORIASIS (A CHRONIC INFLAMMATORY SKIN DIS-EASE)—Same treatment as given under Skin Diseases.

PYORRHEA—Place Electrode No. 44 directly in contact with the gums. Turn on current so that it is very mild and treat all around the gums for three minutes moving the electrode fairly rapidly. Use treatments once daily. Turn off current before removing electrode.

PIMPLES See Acne.

PILES-Same treatment as for Hemorrholds.

RECTAL DISEASES—Same treatment as for Prostatic Dis-RHEUMATISM—Use Electrode No. 1 on and around affected

area through the clothing for fifteen minutes twice daily. Use as strong current as is tolerable and treat until surface reddens. High Frequency Liniment should be applied on the surface before treatment and is a very valuable adjunct. Relief from pain should be felt in a very few treatments and the swelling should disappear to a great extent.

- RED NOSE (ACNE ROSACEA)—Same treatment as given for Acne.
- RING WORMS—Use Electrode No. 1 with medium current and hold about one-quarter inch above the surface for from five to six minutes daily.
- RODENT ULCER—Fulguration Electrode No. 12 is used to destroy the affected tissue. Hold electrode about one-quarter inch above the surface and treat with a mild current for one-half minute daily until tissue has disappeared.
- SCARS—The object in treating scars is to destroy the tissue.
 Use Electrode No. 1 with a strong current and a short spark over the scar for four to five minutes daily.
 Treatment may have to be continued for a considerable length of time to obtain the best results.
- SCIATICA—Follow instructions given under Neuritis, being careful to start treatments with a mild current and gradually increasing the strength and length of treatment from day to day. High Frequency Liniment should be applied before Violet Ray treatment.

SEBORRHEA-Same treatment as given for Dandruff.

- SKIS DISEASES—First, tie a handkerchief or piece of linen around the bulb part of Electrode No. 1. This allows a shower of sparks to pass from the electrode to the body at the same time it prevents the electrode from making contact. Treat with a medium strength current for from three to five minutes daily.
- SORE PEET—Apply High Frequency Liniment first. Then treat with Electrode No. 1 in contact with a strong current from five to eight minutes twice daily or more often if necessary.
- SORE THROAT—Same treatment as for Hoarseness. Inhalations from our ozone generator are of exceptional value and should be taken twice daily for six minutes duration each treatment.
- SPRAIRS—If sprain is of long standing, use a strong, sharp spark by holding electrode from one-quarter to one-haif inch above the surface. If otherwise, use Electrode No. 1 directly in contact with a strong current for ten minutes twice daily. High Frequency Liniment should be applied before treatment of High Frequency.

STIPP NECK-Same treatment as for Stiff Joints.

STRICTURE OF THE URETHRA—Use Electrode No. 11 with a mild current for five minutes daily. Use cold cream or similar lubricant on electrode before inserting. Be sure and have electrode inserted before turning on current and turn off current before removing.

SYCOSIS -See Barber's Itch.

TUNSILATIS-Same treatment as for Sore Throat.

TINNITUS AURIUM (ROARING SOUND IN THE EAR)-Follow treatment given under Catarrhal Deafness.

TUBERCULOSIS—Inhalations of ten minutes duration three times daily from ozone generator are of exceptional value in the treatment of Tuberculosis. A cure should not be expected, but great relief may be felt in the majority of cases.

URETHRITIS-Same treatment as for Gleet.

- than five minutes daily with a medium current. Use cold current is turned off before inserting and be sure trode.
- WARTS—Electrode No. 14 held one-quarter inch above the surface of the wart so that a shower of sparks flows from it to the surface. Treat until wart turns white on top and tissue is destroyed. Two days later follow with the same treatment. Avoid picking wart with finger nails. No scar will be left if treatment is given successfully.
- WRY NECK—Treat back of ears and down the back and sides of neck with Electrode No. 1, using a strong current and holding electrode directly in contact. After continuing this treatment for five minutes, raise the electrode and pat the surface treated for five minutes longer.
- WRITER'S CRAMP—Apply Electrode No. 1 from the finger tips to shoulder and upper spine, using a strong current with sharp spark for five minutes twice daily.

A Working Manual of High Frequency Currents

By Noble M. Eberhart, M. D., Ph. D., D. C. L., Professor and Head of Department of Physiologic Therapeutics, Med. Dept. Loyola University, Chicago; Professor of High Frequency Illinois School of Electro-Therapeutics.

Just what the name implies, a working hand-book, telling how to use these currents. No lengthy discussions, no perplexing technicalities (no red tape), 324 pages, over 60 pages of illustrations. Handsomely bound. Price \$3.00; postage 10 cents.

High Frequency Liniment

Pine Needle Oil

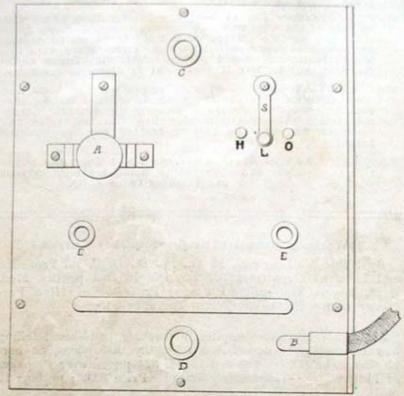
For use in Ozone Generator.
Per Bottle\$0.50

Insulated Electrodes

The insulation of Electrodes prevents leakage of current at side walls and delivers full benefit at point of contact with parts to be treated. In using internal Electrodes always insert before turning on current at the knob, and turn off current before withdrawing Electrode.

Dr. Snow's Set of Vacuum Electrodes

Instructions for Operating MODEL "C"



PLAN VIEW OF TOP PLATE

First, connect the connector plug to lighting socket. On the top plate is adjustment knob. (A). The contact point controlled by adjustment knob is situated directly over the contact point on the vibrating spring. To operate the generator, these contacts must be touching. By turning the adjustment knob to the right, the current is made stronger. By turning to the left, the current may be weakened.

On the top plate is also a small switch (S) with three contact poin's marked h, L, and O. When the arm of the switch makes contact with point H, use the glass electrodes in the hard cubber handle for external treatments

trodes in the hard rubber handle for external treatments of the body. When the switch arm is moved to contact L, use the glass electrodes for internal treatments. When the switch arm is moved to make contact with point O, the high frequency treatment currents are shut off and ozone is generated in the self-contained ozone generator. To take treatments of ozone, simply inhale through the aluminum mask which is connected to the instrument by the tubing. This mask is made to fit over the nose and mouth and inhalations may be taken either through the nose or mouth. Every three or four weeks, it is necessary to place in the ozone generator five or six drops of Pine Needle Oil, a small bottle of which will be found with the instrument. To put this Pine Needle Oil in the generator, simply pull out the L shaped connection (B) which fits in the top plate of the generator on one side and to the rubber hose on the other. Pull this straight out of the top plate. Pour in five or six drops of Pine Needle Oil and replace connection.

The two small rubber openings (E) on the top plate of the

Needle Oil and replace connection.

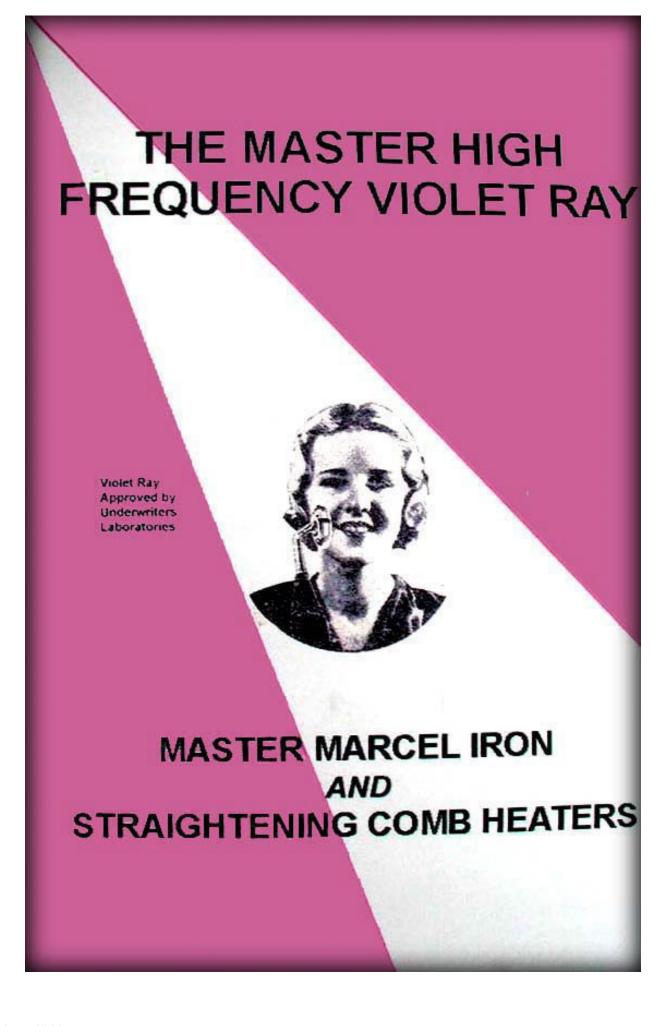
The two small rubber openings (E) on the top plate of the generator are air inlets only. The nickel plated tubing of U shape which runs crossways on the top plate of the generator is part of the ozone generator only and cannot be removed from the top plate.

In addition to instructions in our regular Treatment Chart, special instructions will be found in the Eberhart's Manual which is part of the Model C outfit.

RENULIFE ELECTRIC CO., Inc.,

Detroit, Mich.

Detroit, Mich.



THE MASTER HIGH FREQUENCY PROFESSIONAL AID TO HEALTH AND BEAUTY

One of the most remarkable developments of the wonderful science of electricity is that of the Violet Ray machine or high frequency generator. This is a diffusion of an electrical current of tremendous power and resistance, into millions of tiny harmless units which can be applied to the tenderest and most delicate parts of the body without the slightest harm.



Application of the High Frequency

The Master Violet Ray is applied through vacuum applicators or electrodes made of annealed glass. The electrodes diffuse the electrical current in sprays of a beautiful, deep violet color. These sprays vibrate to and fro thousands of times per second. This rapid vibration is what produces the pleasing, invigorating and corrective effect derived from Violet Ray treatments and described as cellular massage.



The Violet Ray while introducing all of the tremendous power of electrical energy into the body, does so without pain, shock, or contraction of muscles. Its application, on the contrary, produces a pleasing sensation or a gently stimulating action depending on how you apply it. The amazing results of the Violet Ray treatment have caused it to be accepted by many physicians throughout the country as part of their standard equipment. The machine is ready for use by simply connecting it to any convenient light socket. The Master Violet Ray is the essence of simplicity and can be operated by all with the utmost safety.

METHODS OF APPLYING THE HIGH FREQUENCY

Three distinct methods of application are in general use, according to the conditions present and the results desired.







First: Local Applications

Given with specific surface or orificial applicators made for that purpose. One of the greatest benefits of the Violet Ray is the fact that it can be used with such excellent results in local conditions. When the Master Violet Ray is applied to any part of the body, it gives to a limited extent a general treatment by stimulating the circulation. These results are greatly increased by giving a local treatment to the part affected. Suppose one is afflicted with rheumatic pain in the shoulder, you apply the Violet Ray treatment to the painful part. The result noted, will be an immediate sensation of warmth. After a slight application the part treated has become slightly reddened as the capillaries widen and allow more blood to circulate.

Second: General Applications

An electrification treatment for a general effect on the body. The entire body is saturated with electrical energy by simply holding the electrodes in the hands. This produces a tranquilizing sedative or quieting effect.

Violet Ray High Frequency Currents have the tendency to establish a normal equilibrium of the nervous system. Arterial tension during a general treatment usually increases slightly while it falls a short time afterward. General treatments are recommended in nervous disorders.

Third: Indirect Applications

Combines local and general treatments and requires two people. The party to be treated holds the electrode firmly in the hand. A second party then may draw with either hand, finger-tips, or another electrode, the high frequency current to the desired spot of the patient's body.

SELECTIVE EFFECTS OBTAINABLE

A: As A Sedative

A sedative, quieting or soothing effect can be obtained and is of great benefit in cases of muscular aches and pains, and many nervous ailments. This effect can be produced locally by keeping the electrode in close contact with the part to be treated. Painful sensations are relieved, irritated nerves tranquilized and soothed. Nervous disorders are often beneficially influenced by a sedative treatment used for all three types of applications.

B: As A Stimulant And Tonic

A stimulating effect is produced when the electrode is lifted somewhat during the application or used through the clothing or a cloth which has been put over the part to be treated. The length of the stimulating sparks depends on the thickness of the clothing or cloth placed between the electrode and the body. Uniformity in spark length is insured by the cloth. This stimulation is caused by the many small sparks generally called High Frequency Spray. They cause a pleasant and tingling sensation and bombard thoroughly the area which they cover, resulting in a beneficial heating effect, used for local and indirect applications.



As Applied For Specific Conditions and Ills

If you do not feel well you cannot look well. Many women realizing that good health is essential to real beauty and the prolonging of a youthful appearance use the Master Violet Ray with faithful regularity. The results obtained through its applications will be a revelation to you and assist in bringing your health and appearance to the condition that Nature intended it should be. Rich, red blood is brought to the skin with the use of the Violet Ray. It nourishes the tissue and cells and brings the radiant hue of health and beauty to the skin.

Many diseases of the scalp and hair, dandruff, falling hair, etc., can be traced to improper circulation of blood flowing through the scalp. The roots are fed by the blood, which flows through small capillaries in the scalp almost microscopic in size. Because of their small size, they become clogged very easily, as a consequence of which many people are affected with some form of scalp disease. To overcome scalp disease, it is often necessary to improve faulty circulation. The Violet Ray is excellent for accomplishing this purpose.

For treating the scalp we have a special comb electrode which conforms to the shape of the head and pulls easily through the hair. Millions of tiny electric sparks jump from the applicator to the scalp. The tiny nerve and blood vessels are gently massaged, the blood starts flowing, and circulation is brought to the roots of the hair.

KEEP THIS IN MIND

Your family physician, who naturally knows your condition should be consulted for treatment of specific ailments. Violet Rays grow in their usefulness the more you study their action and effect. Make it clear to yourself what you wish to accomplish. If you want a soothing effect do not apply a strong spray by holding the applicator distant from the part to be treated, make a close contact instead with the bare skin. If you wish stimulation treat through the clothing with a current strong enough to reach your tissues. If a tranquilizing effect to quiet the nervous system is desired, do not use a current strong enough to cause irritation. Let these be the guiding principles to you and the result in the use of the Violet Rays will be surprising.

The Master High Frequency should not be used as a cureall but due to the stimulating effect of the generator it has a definite place in the therapeutic field. Imperfect circulation accompanies many ailments and the Master High Frequency will promote circulation.

In simplicity of operation, wide range of adjustment, durability, beauty and unique construction, Master High Frequencys are the ideal all-purpose generators. Unless otherwise specified, all machines will be furnished to operate on standard voltage of 110 to 125 A.C. and D.C. Machines can also be furnished to operate on 220 volts and 32 volts. Our 220-volt winding will run on both A.C. and D.C. current. Voltages are from 200 to 250.

The new models of Master Violet Ray machines are the result of years of experience in the sale and manufacture of these products. All Master machines are manufactured of the best material obtainable by highly skilled, experienced workmen. Our various inspections are the most rigid it is possible to give.

DIRECTIONS FOR OPERATING

The Master High Frequency Outfit

1. Insert glass applicator into the instrument with slightly turning movement. Hold by stem. Do not insert by holding bulb or end of electrode or put pressure on electrode.

2. Attach the connecting plug to the lamp socket.

3. Adjustment of the High Frequency discharge is obtained by the adjusting knob.

1. Place glass applicator on the skin surface at the affected portion of the body and slowly move the applicator back and forth across the surface of the skin in such affected area until relief is obtained.

5. Start any operation with a mild discharge and increase it gradually to the required

strength.

6. Take good care of the connecting cord, Keep it dry and free from knots and twists. Have it repaired in time if signs of wear appear.

DON'T's

7. Duration of application should not exceed 10 minutes; do not operate your machine for any longer time during one treatment.

8. The machine should not be applied more often than four times during any one twenty-four hour period, with at least one hour interval between each application, unless your physician prescribes more repeated frequency of administration.

9. Do not attempt to repair the apparatus. If the necessity arises, write to the factory

advising of your difficulties and you will be informed what to do.

10. Do not use the Master in connection with any tonic, water, inflammable lotions, or medicament containing alcohol on the hair or any part of the

11. Be careful with the apparatus and when not in use turn the current off. Be on the safe side and remove the connecting plug from the lamp socket after use.

- 12. Do not touch the appliance or attempt to connect it to a lamp socket when your hands are wet. Do not use while at the wash basin or in connection with an electric
- 13. Do not operate your machine at any one time longer than ten minutes. To do so overheats the coils and may result in their burning out. When this occurs, our guarantee does not apply. The machine may be used intermittently over a long period of time providing the coils are permitted to cool between use.

14. Do not allow the body to come in contact with metal, this includes metal furniture,

while using or operating this device.

15. Another "don't" that is indeed very important is that the handle of the High Frequency Machine should not be grasped close to the applicator while the machine is not in use; i.e., when the current is turned on and the applicator is not being applied to the handle. applied to the body.

The reason for this is that the current will jump from the tip of the handle if it is not being drawn off by the glass applicator to some part of the body. It is a simple matter to avoid by merely holding the handle of your machine at the end farthest

away from the electrode.

When using the apparatus, always grasp it above the round ridge of the housing. 16. Occasionally we have complaints when one-piece machines do not operate when held in a vertical position. When this occurs, use a stronger current or reverse the position of position of the machine. It is never necessary to use machine in upside down position.

17. Damages arising from carelessness are not covered by our guarantee. If instructions are properly followed, the Master will last indefinitely.

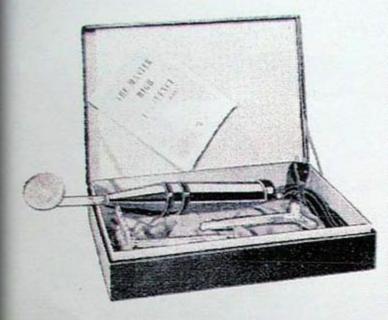
- 18. Many people return machines that are in good order. If machine does not work,
- 19. Master High Frequency seldom gives the user trouble and will last indefinitely.

 Nothing is to be oiled or adjusted. When trouble occurs, it is usually with the electrode, as already explained, or due to a broken cord at the point where it enters

20. If machine fails to operate, turn knob all the way down to right, and he sure you the cap in the base of the Bakelite handle.

have contact.

MASTER VIOLET RAY 2 B DURABLE, MODERN, PRACTICAL



Exceptionally strong, shock proof bakelite, houses the latest development of specially constructed coils for this one piece machine. The bakelite housing has an angular surface that prevents slipping while in use and rolling off tables or dressers. Carrying case contains No. 1 General Electrode, No. 3 Rake Electrode, and No. 12 Glass Electrode. Seal grain carrying case does not show dirt.

Price\$16.50

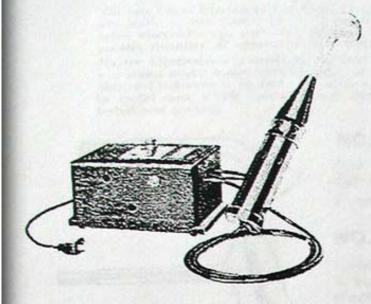
MASTER VIOLET RAY 5 B WITH CONDENSER ELECTRODE



The condenser electrode condenses the current giving a strong even flow. Heat is generated and is often helpful in relieving pain in deep scated cases such as rheumatism, lumbago, and neuritis.

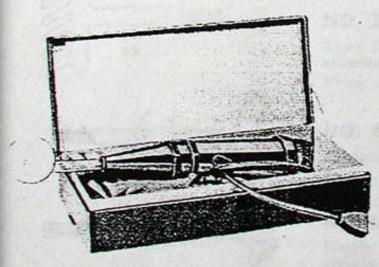
5 B includes the most modern Violet Ray coils and housing. The No. 1 General Electrode, No. 2 Condenser Electrode, No. 3 Comb. Electrode, No. 4 Throat Electrode and No. 12 Glass Saturator Electrode are enclosed in a silk carrying case. 5 B gives years of dependable service.

MASTER VIOLET RAY 7 B HEVI-DUTY



This Hevi-Duty Master Violet Ray is a scientific development specially designed for professional use. It is sturdily constructed to endure longer usage in Beauty Shops, Hospitals, and Doctor's offices, operating continuously for several hours when desirable. The two extension cords afford a wide range for application in any position. In the illustration is No. 1 General Electrode which is furnished with the machine. However, any type electrode can be used with model 7-B. Price\$25.00

MASTER VIOLET RAY NO. 9 DURABLE



For 240, 220 or 32 volts, add \$2.00. All Master Violet Ray Outfits are designed to work on standard current, 110 to 125 volts AC or DC. Kindly specify the voltage you want when ordering if the required voltage is not the standard 110-125 volts.

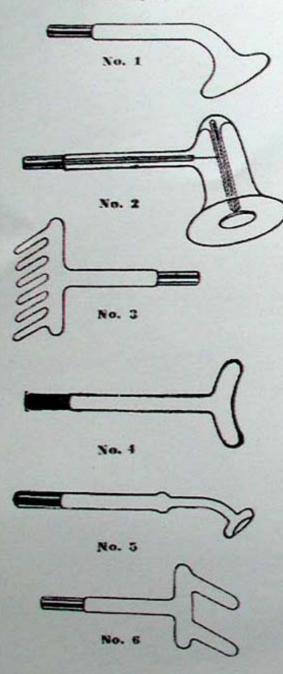
The output of Master instruments is truly marvelous, not only is the amperage tremendously high at the full adjustment, but the mill-amperage is great in volume causing much heat at the point of application to the body, an effect most desirable and not found in other instruments.

PAGES

ELECTRODES AND APPLICATORS

Vacuum Glass Electrodes for High Frequency Violet Ray Application are made in two types: Plain or non-insulated, and insulated. Insulated electrodes are used for Orificial Treatments as they deliver a greater quantity of current at the desired locality.

Master Electrodes are made of the best grade of special glass, which will stand heavy usage without signs of deterioration. The vacuum in Master Electrodes is perfect. The ends of the electrodes are protected by metal caps, which insure greater life. All electrodes are carefully tested and packed.



NO. 1 GENERAL ELECTRODE

For facial and body treatment, and for any surface application.

NO. 2 CONDENSER ELECTRODE

Condenses the current and produces a strong, even flow; also generating electrical heat, which is very desirable in deep scated cases. Used for Rheumatism, Lumbago, Neuritis, etc.

Price\$3.50

NO. 3 COMB-RAKE ELECTRODE

Used for all scalp treatments and for stimulating the hair cells.

Price\$1.85

NO. 4 THROAT ELECTRODE

Designed to fit over the neck.

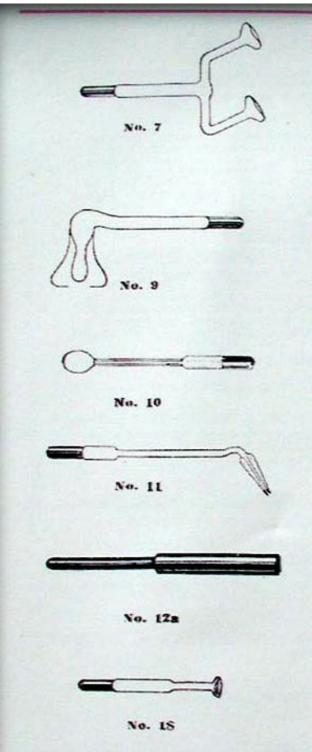
Price\$1.25

NO. 5 EYE ELECTRODE

NO. 6 SPINAL ELECTRODE

For all Spinal treatments. Arranged so that it fits over both sides of the vertebrae.

Price\$2.25



NO. 7 DOUBLE EYE ELECTRODE

This electrode is used for the same purpose as the No. 5 Single Eye Electrode, but is designed for the treatment of both eyes at once. It distributes the current evenly to both eyes and is recommended where both eyes are to be treated.

Price

NO. 9 LARGE CATAPHORIC ELECTRODE

This electrode has large capacity, and greater space for cotton and liniment. Used in the treatment of Rheumatism, Lumbago, Neuritis, etc., or wherever liniment is used.

NO. 10 SPATULA OR TONGUE ELECTRODE

NO. 11 INSULATED EAR ELECTRODE

NO. 12a GLASS ELECTRODE

NO. 18 CORN ELECTRODE

CARE OF ELECTRODES

Keep the electrodes clean. Washing with warm water and soap is sufficient. Electrodes will stand heat and can be boiled in water.

The electrodes will burn out in time much on the order of an electric light bulb. When difficulty arises with the machine it is usually due to the electrode being burned out. Try another electrode before concluding that the trouble is with your machine.

PAGE II

ORIFICIAL TREATMENTS

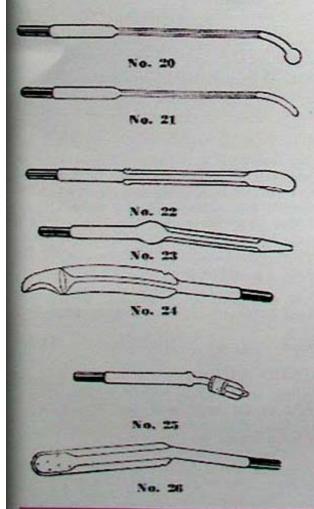
Orificial Applicators are illustrated solely for the benefit of physicians and other licensed practitioners. Under no circumstances should treatments be attempted by unskilled persons without competent supervision.

All Orificial Electrodes must be lubricated before insertion. For the sake of safety there should be two people in Orificial work, the patient and the operator. The current should be turned on after inserting the electrode in the orifice and turned off before removing the electrode. The electrode should be moved slightly to avoid sticking to mucuous membrane. Treatments are not to be continued longer than five minutes.

INSULATED ELECTRODES

The advantage of insulated tubes is that the current may be introduced without loss into the orifice of the body. In using a plain electroic for an orifice, much of the current is lost at the first point of contact. For instance, if the prostatic gland is being treated with the plain electrode, much of the current is drawn off at the opening of the rectum, but if the insulated tube No. 22 is used, the current is conveyed to the desired point without loss.

NO. 19 NASAL ELECTRODE



NO. 20 INTERNAL THROAT ELECTRODE

Used for tonsilitis, hypertrophy of the tonsils, ulcers of tonsils, etc.

Price \$2.40

NO. 21 URETHRAL ELECTRODE

NO. 22 PROSTATIC ELECTRODE

Designed so that it fits directly over the prostate gland. In many cases this electrode can also be used for vaginal work in place of No. 21.

Price \$2.10

NO. 24 VAGINAL ELECTRODE

NO. 25 CAUTERY ELECTRODE

This has a platinum wire scaled in the glass. For removing warts, moles or growths of any nature, it cannot be excelled. Very seldom is it necessary to give more than two treatments; most often one application is all that is necessary.

Price \$2.50

NO. 26 SPECIAL VAGINAL ELECTRODE

Made with perforations so that ozone may be generated within the vagina.

Price \$3.50

GUARANTEE

The Master Violet Ray instrument is guaranteed against mechanical and electrical defects for a period of one year from date of purchase by the user, providing that all instructions for the proper use and operation have been followed. Defective parts will be replaced free of charge when needed, providing the apparatus is returned to the factory prepaid. Damage caused by parties other than ourselves in attempting to repair our machines is not covered by this guarantee. Glass applicators are not guaranteed for any specified period of time; they are made of the very best materials obtainable and thoroughly tested before shipping.

C.O.D. SHIPMENTS MUST BE ACCOMPANIED BY AT LEAST 25% DEPOSIT.

MASTER STURDY IRON HEATERS WITH SWITCH

Sturdy Master Heaters embody an entirely original method of construction. The heaters have a laboratory tested heating unit of nichrome that gives quick and even heat. The base, perfectly insulated with molded material, is made in one piece. It is heat resistant and will not mar dressers or tables.

An on and off switch permanently attached in the base turns the heat on or off. No pulling the cord out of a socket.

The metal parts of the heater are made entirely of aluminum, thus insuring long satisfactory use. The cord is a special heater cord with a genuine rubber plug to eliminate time consuming repairs, and there are no exposed wires to give electric shocks.

Master heaters recognized for years as standard equipment by professional beauticians, are giving complete satisfaction to thousands of users. MAIL your order today for these dependable heaters.

MASTER SINGLE IRON HEATER

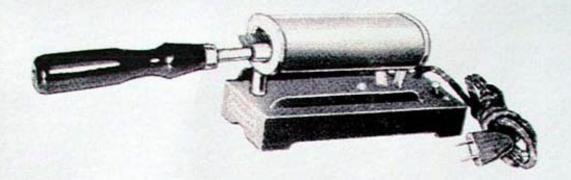


Attractive Appearance, Durable Service

An ideal type of heater for professional shop or home use. The Master Single Iron Heater has an attractive appearance and an established reputation for service and durability. Wrapped individually in attractive box. Priced Low.

110-125 Volts AC or DC — PRICE \$6.00 220 240 Volts Add \$2.00 — Wt. 2 lbs.

MASTER STRAIGHTENING COMB HEATER AND MULTIPLE MARCEL IRON HEATER

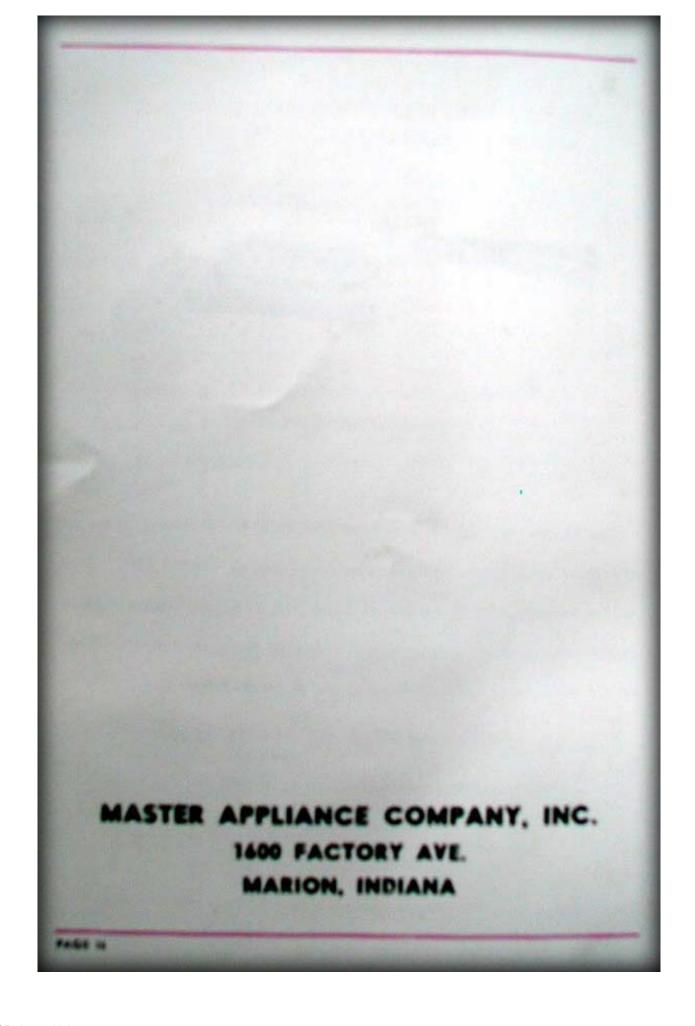


This Heater Speeds Up Your Work Because There Is No Wasted
Cooling Off Time.

The Master Multiple Marcel Iron Heater holds 3 Marcel Irons at one time or 1 large straightening comb and 1 Marcel Iron. This heater was specially developed in answer to numerous requests for a heater large enough to heat a straightening comb or 3 Marcel Irons at the same time. Individually wrapped in an attractive box.

110-125 Volts AC or DC - PRICE \$9.50

220/240 Volts Add \$2.00 - Approx. Wt. 21/4 lbs.



DIRECTIONS FOR OPERATING

The Master High Frequency Outfit

DO's

- 1. Insert glass applicator into the instrument with slightly turning movement. Hold by stem. Do not insert by holding bulb or end of electrode or put pressure on electrode.
- 2. Attach the connecting plug to the map socket.
- 3. Adjustment of the High Frequency discharge is obtained by the adjusting knob.
- Place glass applicator on the skin surface at the affected portion of the body and slowly move the applicator back and forth across the surface of the skin in such affected area until relief is obtained.
- 5. Start any operation with a mild discharge and increase it gradually to the required strength.
- Take good care of the connecting cord. Keep it dry and free from knots and twists. Have it repaired in time if signs of wear appear.

DON'T's

- 7. Duration of application should not exceed ten minutes for one individual,
- The machine should not be applied more often than four times during any one twenty-four hour period, with at least one hour interval between each application, unless your physician prescribes more repeated frequency of administration.
- 9. Do not attempt to repair the apparatus. If the necessity arises, write to the factory advising of your difficulties and you will be informed what to do.
- Do not use the Master in connection with any tonic, water, inflammable lotions, or medicament containing alcohol on the hair or any part of the body.
- Be careful with the apparatus and when not in use turn the current off. Be on the safe side and remove the connecting plug from the lamp socket after use.
- 12. Do not touch the appliance or attempt to connect it to a lamp socket when your hands are wet. Do not use while at the wash basin or in connection with an electric bath.
- 13. Do not operate your machine at any one time longer than ten minutes except for 7B which may be operated for as long as two hours. To do so overheats the coils and may result in their burning out. When this occurs, our guarantee does not apply. The machine may be used intermittently over a long period of time providing the coils are permitted to cool between use.
- Do not allow the body to come in contact with metal, this includes metal furniture, while using or operating this device.
- 15. Another "don't" that is indeed very important is that the handle of the High Frequency Machine should not be grasped close to the applicator while the machine is not in use; i.e., when the current is turned on and the applicator is not being applied to the body.

The reason for this is that the current will jump from the tip of the handle if it is not being drawn off by the glass applicator to some part of the body. It is a simple matter to avoid by merely holding the handle of your machine at the end farthest away from the electrode.

- When using the apparatus, always grasp it above the round ridge on the housing.

 16. Occasionally we have complaints when one-piece machines do not operate when held in a vertical position. When this occurs, use a stronger current or reverse the position of the machine. It is never necessary to use machine in upside down position.
- Damages arising from carelessness are not covered by our guarantee. If instructions are properly followed, the Master will last indefinitely.
- Many people return machines that are in good order. If machine does not work, try its operation on another electrical outlet.
- 19. Master High Frequency seldom gives the user trouble and will last indefinitely. Nothing is to be oiled or adjusted. When trouble occurs, it is usually with the electrode, as already explained, or due to a broken cord at the point where it enters the cap in the base of the Bakelite handle.
- If machine fails to operate, turn knob all the way down to right, and be sure you
 have contact.

THE MASTER HIGH FREQUENCY

(Violet Ray)



5 B includes the most modern Violet Ray coils and housing. The No. 1 General Electrode, No. 2 Condenser Electrode, No. 3 Comb. Electrode, No. 4 Electrode and No. 12 a Glass Saturator Electrode are enclosed in a silk carrying case. 5 B gives years of de-

pendable service. The condenser electrode condenses the current giving a strong even flow.

Price\$24.75



·7B

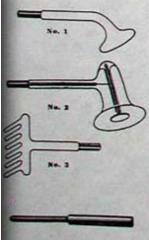


Built to last, Master Violet Ray has all the modern features including angular molding of the housing to prevent alipping or rolling off tables or dressers. Offered to you at the lowest price at which a one-piece machine with shock-proof bakelite handle has ever been offered. Don't hesitate. Write for your Master Violet Ray Kit Today.

Price \$13.75

9

Master Electrodes



Exceptionally strong, shock

proof bakelite, houses the latest development of specially constructed coils for this one

piece machine. The bakelite

ousing has an angular surface that prevents slipping while in use and rolling off

tables or dressers. Carrying

case contains No. 1 General

Electrode, No. 3 Rake Elec-

trode and No. 12 a Glass Elec-

trode. Seal grain carrying case does not show dirt.

Price \$ 18.15

NO. 1 GENERAL ELECTRODE

For facial, body and any other surface

\$1.38

NO. 2 CONDENSER ELECTRODE

Condenses the current and produces a strong, even flow. Desirable to tem-porarily relieve muscular aches due to over exertion and fatigue.

NO. 3 COMB-RAKE ELECTRODE

Used for all scalp treatments to produce a tingling sestimulate the scalp. tingling sensation and gently

NO. 12a GLASS ELECTRODE

This application has a slightly stronger effect and requires two people. The party to be treated holds the electrode firmly in her hand. A second party with either finger tips or another electrode description trode draws high frequency to the desired spot of the patient's body by touching the part to be affected.

To obtain a quieting effect place electrode directly on skin. To obtain a tingling sensation place electrode on cloth above skin.

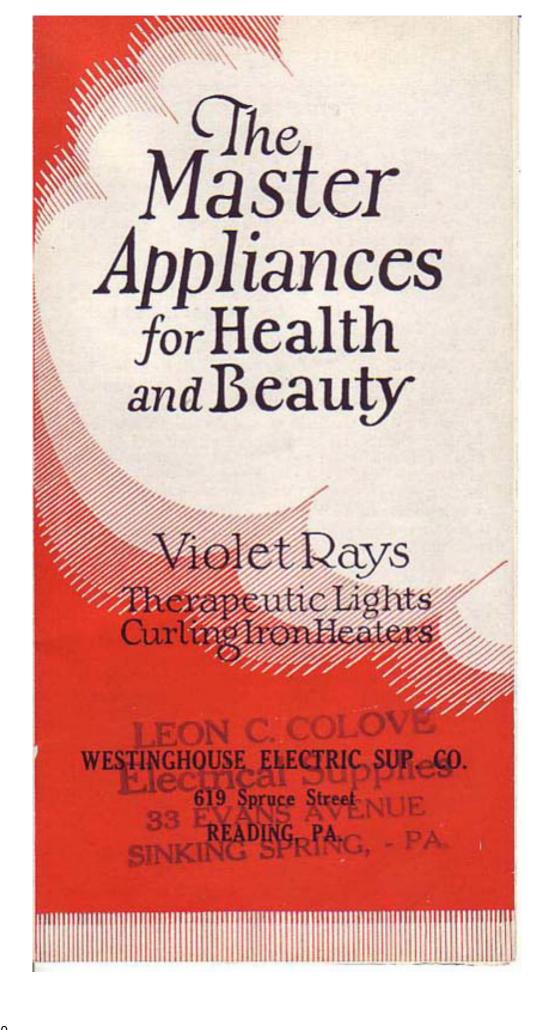
Master High Frequency

The Master Violet Ray applies to the human body. It is stimulating; often the irritation from the electrical discharge helps to temporarily relieve muscular aches and pains, when such aches and pains are due to over-exertion and fatigue.

Master Violet Ray machines are one of the most durable to be secured, because only the highest grade of materials are used in the manufacture and fabrication of these , machines; workmanship is of the finest, and each machine is backed by thirty years of experience.

When using, apply the machine to the affected parts of the body for temporary relief when muscular aches and pains occur due to overexertion and fatigue.

> Master Appliances 1600 Factory Avenue Marion, Indiana



THE VIOLET RAY

A HEALTH BUILDING HIGH FREQUENCY MACHINE FOR HOME USE

The most successful form in which electricity has been used as a means of securing good health is that phase known as High Frequency or Violet Ray. By this method the wonderful power of electricity can be applied to the human body without pain, sensation, or shock, and without danger from overtreatment or overexposure.

A REMARKABLE BEAUTIFYING AGENT

The Violet Ray is without an equal in relieving pain and congestion, stimulating the circulation and restoring good health, vigor and youth. As a beautifying agent it is incomparable. It is an invaluable aid in the treatment of facial blemishes, and through its consistent use a fresh glow is brought to the skin and a clear healthy complexion produced.

For treating the hair and scalp, the Violet Ray is unexcelled. Its stimulating action and germicidal qualities, assist tremendously in the removal of dandruff and in stopping falling hair and promoting its growth. The use of the Violet Ray for a few moments each day has a tendency to make the hair thick, healthy, and beautiful. It is used and recommended by beauty specialists everywhere.

A VALUABLE ASSISTANT IN TREATING INNUMERABLE DISORDERS

These alone are not the only uses to which the Violet Ray can be put. Its penetrative qualities which stimulate the blood cells and cause them to vibrate, together with the large quantities of ozone generated, serve to make it an effective blood purifier and a means of treating many disorders and conditions. These machines are of particular benefit in the treatment of rheumatism, lumbago, neuritis, and similar ailments. The use of the Violet Ray has brought remarkable results in a great many instances when all other means have failed.

MASTER VIOLET RAY MACHINES

The machines furnished are the very best to be secured. Only the highest grade of materials are used. The workmanship is of the finest and each machine is backed by fifteen years of experience in manufacturing Violet Ray Machines.

Master Violet Ray No. 9



Newly designed and embodies many superior features. Sells at the lowest price at which a one-piece machine with a shock-proof hard rubber handle has ever been offered. Complete with attractive carrying case of exceptionally substantial construction and general electrode.

Master Violet Ray No. 2B

The entire mechanism is contained in the handle of this one-piece outfit. Embodies all of the requisites of simplicity and ease of operation. The handle is shock-proof and made of beautifully polished hard rubber

MASTER VIOLET RAY

ished hard rubber. Includes carrying case, General, Comb and Metal Electrodes. A real bargain.

Price \$12.50

Our very comprehensive booklet, descriand value of this indispensable applian

Master Violet Ray No. 15

The latest development in a one-piece machine. Exceptionally strong hard rubber housing and



specially constructed coils that will not overheat. Equipped with Surface, Comb, Throat and Metal Electrodes.

Price

\$15.00

The Master Violet Ray No. 17

This latest addition to our line is equipped with No. 1 General Electrode, Condenser Electrode No. 2, Comb Electrode No. 3, Throat Electrode No. 4, and Metal Electrode No. 12. The addition of the

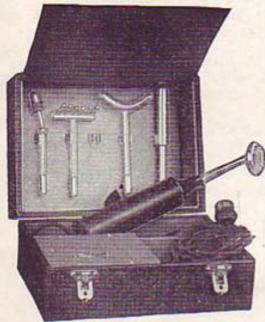


popular and useful Condenser Electrode makes this outfit an article of exceptional utility and a real value.

Price \$17.50

ribing in detail the therapeutic action nce, will be furnished upon request.

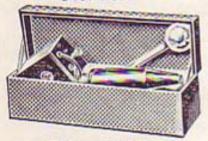
Master Two Piece Outfits



Exceptionally small, light weight hard rubber handles are used on all Master two piece models. Carrying cases are substantially constructed and very attractive in appearance. All machines are equipped as illustrated.

Master Violet Ray No. 8 Price \$25.00

Master Violet Ray
No. 10A
Master Violet Ray
No. 11



Price \$8.50

Master Combination Outfit

Combines high frequency and vibratory apparatus. Handsome leatherette covered carrying case lined with red velvet. Equipped with seven electrodes and three vibrator applicators as illustrated.

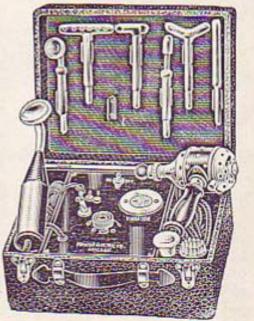
Complete

\$62.50

Less Vibrator Equipment \$50.00

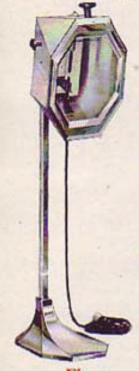


Price \$12.50



The Master June Sunshine Lamp

This is an Ultra-Violet Lamp of the Carbon Arc Type and emits an exact reproduction of the Sun's rays. With it you can have Sunshine available in your home at all times, regardless of weather conditions.



Model "F"

Price

Relationship of Sunshine to Health

The important relationship of Sunshine to Health is now universally recognized. The results secured from Sunshine Treatments for both children and adults are, in many cases, phenomenal.

Construction of Master Lamps

Master Lamps are scientifically constructed to render the greatest efficiency in application. They will produce the highest intensity of Infra-Red and Ultra-Violet radiation commensurate with safety when used with recommended carbons of the proper size.

Special Features

Master Lamps are exceptionally attractive and unique in appearance and design, low in price, and embody features which have reduced carbon waste to an absolute mini-

mum. Our safety feature brings these lamps to an automatic stop after they have burned for twelve minutes without adjustment. Master Lamps are adjustable to any height or angle and embody all of the latest features of construction without the use of any intricate mechanism whatsoever.

Equipment

All Master Lamps are equipped with ten Eveready Therapeutic C (Ultra-Violet) Carbons and two pairs of goggles. All carbons supplied with Master Lamps are eight millimeters in diameter.



Table Model "T" Price \$25.00

Master Jr. Light



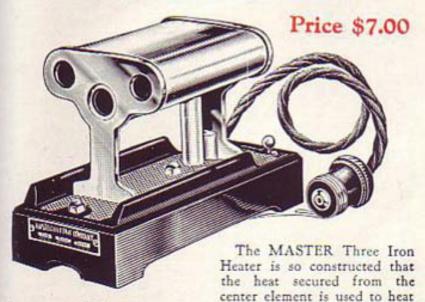
Ideal small, low priced lamp for heat treatments. Gives surprising relief in the treatment of aches, pains, and muscular soreness. Also used with beneficial results in the treatment of rheumatism, neuritis, and in all cases where heat is needed. Serves the same purpose as any high priced heat lamp. Complete with special heat generating bulb and packed in individual carton.

Marcel Iron Heaters

Master Heaters possess features of construction, convenience and utility which cannot be surpassed.

The bases of all Master Heaters are constructed of heat resisting material and contain "on and off" switches permanently mounted. Metal parts are of highly polished aluminum which cannot rust, corrode or discolor. The laboratory tested heating units of nichrome give forth a quick and even heat and can be used to heat all or a portion of the iron.

Master Three Iron Heater



the two outside holes to a lesser degree. The iron can quickly be brought to the proper temperature in the center hole and thereafter the proper degree of heat may be maintained by keeping the iron in either of the outside holes.



THE VIOLET RAY

ALTH BUILDING HIGH FREQUENCY MACHINE FOR HOME USE

most successful form in which electricity has sed as a means of securing good health is asse known as High Frequency or Violet by this method the wonderful power of elec-can be applied to the human body without mission, or shock, and without danger from atment or overexposure.

EMARKABLE BEAUTIFYING AGENT

WARKABLE BEAUTIFYING AGENT Violet Ray is without an equal in refleving ad congestion, stimulating the circulation storing good health, vigor and youth. As a ring agent it is incomparable. It is an initiated in the treatment of facial blemishes, and its consistent use a fresh glow is brought to and a clear healthy complexion produced, treating the hair and scalp, the Violet Ray celled. Its stimulating action and germinalities, assist tremendously in the removal fruil and in stopping falling hair and project growth. The use of the Violet Ray for noments each day has a tendency to make thick, healthy, and beautiful. It is used and sended by beauty specialists everywhere.

LUABLE ASSISTANT IN TREATING INNUMERABLE DISORDERS

RNUMERABLE DISORDERS

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IASTER VIOLET RAY MACHINES

machines furnished are the very best to be Only the highest grade of materials d. The workmanship is of the finest and achine is backed by fifteen years of experi-manufacturing Violet Ray Machines.

Master Violet Ray No. 9



Newly designed and embodies many superior features. Sells at the lowest price at which a one-piece machine with a shock-proof hard rubber handle has ever been offered. Complete with attractive carrying case of exceptionally substantial construction and general electrode.

Master Violet Ray No. 2B

MASTER VIOLET AUT

The entire mechanism is contained in the bandle of this onepiece outfit. Emrequisites of sim-plicity and ease of operation. The handle is shock-proof and made of beautifully pol-



\$12.50

Our very comprehensive booklet, describing in detail the therapeutic action and value of this indispensable appliance, will be furnished upon request.

Master Violet Ray No. 15

The latest development in a one-piece machine. Exceptionally strong hard rubber housing and



specially constructed coils that will not overheat. Equipped with Surface, Comb, Throat and Metal Elec trodes.

> Price \$15.00

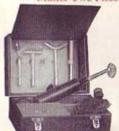
The Master Violet Ray No. 17

This latest addition to our line is equipped with No. 1 General Elec-trode, Condenser Electrode No. Comb Electrode No. 3, Throat Electrode No. 4, and Metal Electrode No. 12. The addition of the

popular and useful Condenser Ele trode makes this outfit an article of exceptional utility and a real value

\$17.50

Master Two Piece Outlits



Outfits

Exceptionally
small, light weight
hard rubber has
dles are used on
all Master two
piece models. Carrying cases are
substantially constructed and very
attractive in appearance. All machines are equipped as illustrated.

Master Violet Ray No. 8 Price \$25.00

Master Violet Ray Master Violet Ray No. 11 No. 10A



Price \$8.50 Master Combination

Outfit Combines high ire-quency and vibratory apparatus. Hand-some leathertte cov-cred carrying case lined with red velvet. Equipped with seren electrodes and three vibrator applicators as illustrated.

\$62.50 Less Vilbranie Eq. \$50.00



THE VIOLET RAY

A HEALTH BUILDING HIGH FREQUENCY MACHINE FOR HOME USE

A most successful form in which electricity has been used as a means of securing good health is that phase known as High Frequency or Violet Ray. By this method the power of electricity can be applied to the human body without pain, sensation, or shock, and without danger from overtreatment or overexposure.

A REMARKABLE BEAUTIFYING AGENT

The Violet Ray is beneficial in relieving pain and congestion, stimulating the circulation and restoring good health and vigor. It is a valuable aid in the treatment of facial blemishes, and through its consistent use a fresh glow is brought to the skin.

For treating the hair and scalp, the Violet Ray is unexcelled. Its stimulating action and germicidal qualities, assist in the removal of dandruff and in stopping falling hair and promoting its growth. The use of the Violet Ray for a few moments each day has a tendency to make the hair thick, and healthy. It is used and recommended by beauty specialists everywhere.

A VALUABLE ASSISTANT IN TREATING MANY DISORDERS

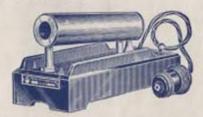
These machines are of particular benefit in the treatment of rheumatism, lumbago, neuritis, and similar ailments. The use of the Violet Ray has brought remarkable results in a great many instances when all other means have failed.

MASTER VIOLET RAY MACHINES

The machines furnished are the very best to be secured. Only the highest grade of materials are used. The workmanship is of the finest and each machine is backed by twenty years of experience in manufacturing Violet Ray Machines.

Master Single Iron Heater No. 1

This appliance represents the ideal type of neater for either professional or home use. It is of attractive appearance and has an established reputation for durability and service.



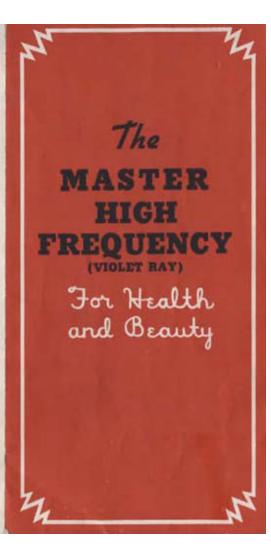
The price is a feature and is less than that usually paid for marcelling iron heaters which do not embody the wonderful improvements of the Master Heater.

Supplied in three styles

No. 1-As above with switch	\$5.50
No. 2-Two Iron-with switch	\$7.50
No. 4-Same as No. 1-less switch	\$4.50



179 North Michigan Avenue CHICAGO, ILL.



Master Violet Ray No. 9

Price \$10.50



Newly designed and embodies many superior features. Sells at the lowest price at which a onepiece machine with a shock-proof Bakelite

handle has ever been offered. Complete with attractive carrying case of exceptionally substantial construction and general electrode.

Master Violet Ray No. 2B

Price \$14.00

Molded of Bakelite, these new MASTER machines have an angular surface that prevents slipping while in use and does away



with the danger of rolling off the table or dresser. Complete with general, comb and metal electrode.

Master Violet Ray No. 15

Price \$16.50

The latest development in a onepiece machine. Exceptionally strong Bakelite housing and specially constructed coils that will not overheat. Equipped with Surface Comb, Throat



and Metal Electrodes. In beautiful silk-lined case.

These new Bakelite housings are now supplied

These new Bakelite housings are now supplied on all Master one-piece machines: the No. 9, No. 2B, No. 15 and No. 17 Violet Rays.

Master Violet Ray No. 17

Price \$18.50

This latest addition to our line is equipped with No. 1 General Electrode, Condenser Electrode No. 2, Comb Electrode No. 3, Throat Electrode No. 4, and Metal Electrode No. 12. The addition of



the popular and useful Condenser Electrode makes this outfit an article of exceptional utility and a real value. Contained in beautiful silk lined case.

Listed as Standard by Underwriters Laboratories



Master Violet Ray No. 8 Price \$27.50

This machine is designed to meet the demand for a complete equipment of the popular two piece type for home

and profession. The carrying case holds five electros in separate compartment as shown.

Master Combination Outfit

Complete \$62.50

Combines high frequency and vibratory apparatus. Handsome leatherette covered carrying case lined with red velvet. Equipped with seven electrodes and three vibrator applicators as illustrated.

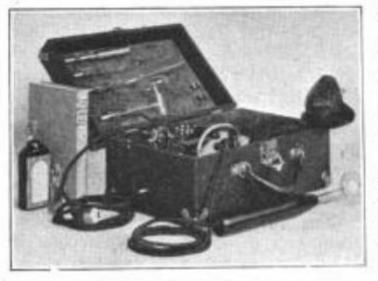
Less Vibrator Equip ment \$50.00



Violet Ray Machine de Luxe

From Electrical Merchandising, May, 1920.

The illustration shows the violet-ray machine made by the Re-nu-life Electric



Company, Detroit, Mich., known as its "model de luxe." It delivers two qualities of high frequency electricity and includes a self-contained ozone generator. By means of a three-way switch conveniently placed on the highly polished mahogany-finished plate, a current may be selected for internal treatments; or a current for external treatments may be selected with no further adjustment of the controlling knob; or the current may be completely turned off the violet ray and the ozone generator put into operation for inhalation. The ozone is filtered by passing through pine needle oil before being inhaled. All metal parts are nickeled.

Other models of violet-ray machines made by this company are a small portable outfit built in a carrying case; one ivory finished, designed for beauty parlor use; a larger portable with carrying case separate; one designed for dentists' use; and one built in a self-contained carrying case.

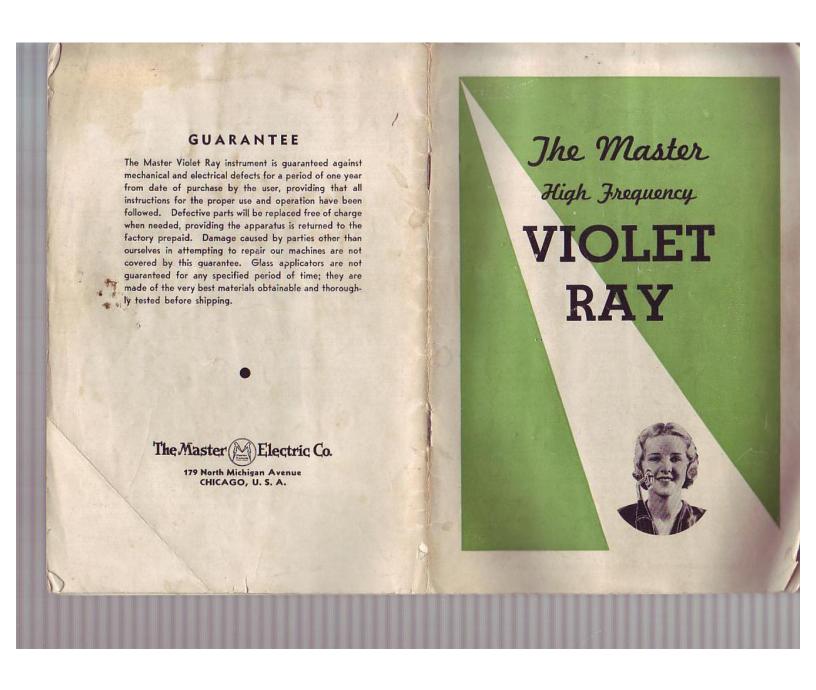
Light-Weight Violet Ray Machine

From Electrical Merchandising, August, 1920

A new violet ray machine designed to operate for a long period without overheating is a product of the Master Electric Company, 113 South Jefferson Street, Chicago. The handle of the machine is light in weight, and both handle and cords are said to be sparkless, thus eliminating any danger of shocks or sparks. Regulation is obtained by turning a small adjustment knob.

This machine, which is being marketed under the name "De Luxe." can easily be carried around, as its weight is only 3 lb. It operates on any current, alternating or direct, and is said to consume about one-fourth of the current consumed by the ordinary 16-candlepower lamp. The generator is mounted in a mahogany cabinet, with silk connecting cord. The apparatus is supplied in a leatherette case for carrying.





DIRECTIONS FOR OPERATING

The Violet Ray High Frequency Outfit

- 1. Insert glass applicator into the instrument.
- 2. Attach the connecting plug to the lamp socket.
- 3. Turn the current on.
- Adjustment of the Violet Ray discharge is obtained by the adjusting knob. To the right the discharge increases, to the left it decreases.
- Start any treatment with a mild discharge and increase it gradually to the required strength.
- Take good care of the connecting cord. Keep it dry and free from knots and twists. Have it repaired in time if signs of wear appear.

Don'te

- Do not attempt to repair the apparatus. If the necessity arises, write to the factory advising of your difficulties and you will be informed what to do.
- Do not use the Master in connection with any tonic or medicament containing a large percentage of alcohol on the hair or any part of the body.
- Be careful with the apparatus and when not in use turn the current off. Be on the safe side and remove the connecting plug from the lamp socket after use.
- Do not touch the appliance or attempt to connect it to a lamp socket when your hands are wet. Do not use while at the wash basin or in connection with an electric bath.
- 11. Do not operate your machine at any one time longer than ten minutes. To do so overheats the coils and may result in their burning out. When this occurs, our guarantee does not apply. The machine may be used intermittently over a long period of time providing the coils are permitted to cool between use.
- Do not allow the body to come in contact with metal. This includes metal furniture, while taking or giving treatments.
- 13. Another don't that is indeed very important is that the handle of the Violet Ray Machine should not be grasped close to the applicator while the machine is not in use; i. e., when the current is turned on and the applicator is not being applied to the body.

The reason for this is that the current will jump from the tip of the handle if it is not being drawn off by the glass applicator to some part of the body. It is a simple matter to avoid by merely holding the handle of your machine at the end farthest away from the electrode.

- 14. Occasionally we have complaints when one-piece machines do not operate when held in a vertical position. When this occurs, use a stronger current or reverse the position of the machine. It is never necessary to use machine in upside down position
- Damages arising from carelessness are not covered by our guarantee. If instructions are properly followed, the Master will last indefinitely.
- Many people return machines that are in good order. If machine does not work try its operation on another electrical outlet.
- 17. Master Violet Rays seldom give the user trouble and will last indefinitely. Nothing is to be alled or adjusted. When trouble occurs it is usually with the electrode, as already explained, or due to a broken cord at the point where it enters the cap in the base of the Bakelite handle.

Listed as Standard by Underwriters' Laboratories

The Violet Ray

High Frequency

NE of the most remarkable developments of the wonderful science of electricity is that of the Violet Ray machine or high frequency generator. The Violet Ray may be said to be a diffusion of an electrical current of tremendous power and resistance, into millions of tiny harmless units which can be applied to the tenderest and most delicate parts of the body without the slightest harm. As applied to the human body, its results have been found to be of enormous benefit in innumerable instances.

Causes of Human Ailments

All human ailments, with the exception of certain highly contagious and infectious diseases, can be traced to faulty circulation and impure blood. When exercise is taken as a matter of course and sound sleep and appetite are natural, weakness and disease seldom develop for the reason that the blood is adequately supplied in its richest state to every part of the body, thereby nourishing every organ and muscle and providing adequate protection against any tendency to weakness. As persons grow older, however, there is a tendency to forsake physical exercise and to retire to a quieter and more secluded mode of living. The circulation suffers accordingly, and instead of being driven to every part of the body in its richest state, a portion collects in the internal areas and becomes stagnant because of the impurities thrown off by the body. These impurities are absorbed by the tissues and a condition of self poison results. as a consequence of which the body begins to deteriorate, the digestive organs fail to function properly, the internal organs become sluggish and weak, and weaknesses develop which are peculiar to men and women. This weakened condition of the blood and vital organs leaves the human body easily susceptible to any disease to which it may become exposed.

Counteracting These Causes by the Use of the Violet Ray

The Violet Ray has provided the means of bringing to every home, at a reasonable price, a method whereby every vital process can be quickened and the blood made to course through the body with renewed vigor. If necessary, the treatment can be concentrated on any organ, muscle or nerve, however delicate or tender, and the same results secured. By this treatment the impurities are washed from the affected organs by a rich, warm flow of blood which nourishes and stimulates the tissues and which is generated by the penetrating current of the Violet Ray, reaching the cells which supply life to the tissue, and causing them to vibrate. The stagnant pools of blood are thus set in motion and the poisons contained therein are relieved by the purifying processes of nature. The blood thus being freed of poisons is able to take up oxygen from the lungs and nutrition from the digestive organs and returns laden with tissue-building material to every part of the body. In this way new tissue is

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formed to replace that destroyed by disease and carried away in the blood stream. This process of stimulation is called a "cellular massage" because of the fact that the vibration or contractile effect is expanded upon the individual cells making up the tissue, rather than on individual muscles. This is an important reason why the high frequency current produces such marked effect on nutrition and general health. Cellular massage is much more penetrating and beneficial than muscular massage as produced by mechanical vibration.

Application of the Ray

The Master Violet Ray is applied through vacuum applicators or electrodes made of annealed glass. The electrodes diffuse the electrical current in sprays of a beautiful, deep violet color. These sprays vibrate to and iro

thousands of times per second. This rapid vibration is what produces the pleasing, invigorating and corrective effect derived from Violet Ray treatments and described as cellular massage. A few minutes application each day, simply holding the applicator in the hand, furnishes a tonic to the system which does much to flight disease and keep the body in a healthy state. Inasmuch as prevention is to be desired a thousandfold rather than a cure, this point alone makes the Master Violet Ray indispensable in your home.

The Violet Ray while introducing all of the tremendous power of electrical energy into the body, does so without the silghtest pain, shock or contraction of muscles. Its application, on the contrary, produces a pleasing sensation, and the amazing results of the Violet Ray treatment have caused it to be accepted by many physicians throughout the country as part of their equipment. The machine is ready for use by simply connecting it to any convenient light socket. The Master Violet Ray is the essence of simplicity and can be operated by a child with the utmost safety.

Methods of Applying the Violet Ray

Three distinct methods of application are in general use, according to the conditions present and the results desired.

First: LOCAL APPLICATIONS

Given with specific surface or orificial applicators made for that purpose.

A beneficial warmth is induced by the action of the Violet Ray, the capillaries

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for BEAUTY, HEALTH, STRENGTH

of the skin are stimulated during the application and for some time thereafter. Any local explication with a vacuum electrode is an effective antiseptic, largely on account of the same generated.

the greatest benefits of the Violet Ray is the fact that it can be used with the smallest results in local conditions. When the Master Violet Ray is applied to say part of the body, it gives to a certain extent a general treatment by stimulating terrolation. In treating local conditions, these results are greatly increased by the shoulder, you apply the Violet Ray treatment to the painful part. The stated, will be an immediate sensation of warmth. After a slight treatment it will streat that the part treated has become slightly reddened by the blood that is a sesponse to stimulation secured from the treatment.

These local treatments can be given to any part of the body with very good results.

The produce the desired results at the treated part quickly and also benefit to a second degree the entire system. The body is penetrated by radiant atomized solutive, restoring energy and vitality to the entire system.

GENERAL APPLICATIONS

Taken as electrification treatment for the sites on the general condition. The entire large is saturated with electrical energy by holding the electrodes in the hands. The produces a sedative or quieting effect.

Violet Ray High Frequency Currents have the tendency to establish a normal equiltion of the entire nervous system. Arterial the during α general treatment usually recess alightly while it falls α short time therefore. General treatments are recom-

Third INDIRECT APPLICATIONS

Combines local and general treatments and septices two people. The party to be treated helds the electrode firmly in the hand. A second party then may draw with either hand, septings, or another electrode, the high frequency current to the desired spot of the petern's body.



Selective Effects Obtainable

A AS A SEDATIVE

A sedutive, quieting or soothing effect can be obtained and is of great benefit in all

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contact with the part to be treated. Painful sensations can be relieved, irritated nerves tranquilized and soothed. Nervous disorders are quickly and beneficially influenced by a sedative treatment.

B: AS A STIMULANT AND TONIC

A stimulating effect is produced when the electrode is lifted somewhat during the application or used through the clothing or a cloth which has been put over the part to be treated. The length of the stimulating sparks depends on the thickness of the clothing or cloth placed between the electrode and the body. Uniformity in spark length is insured by the cloth. This stimulation is caused by the many small sparks generally called High Frequency Spray. They cause a pleasant and tingling sensation and bombard thoroughly the area which they cover, resulting in a very beneficial heating effect. They also generate ozone which is directly driven into the tissue, causing the ozonation of the blood. These sparks are germ-killing and overcome infection.

Stimulating treatments through clothing are very beneficial in rheumatism, lumbago, and partial paralysis. Skin disorders, where the circulation is impaired, are often greatly benefited by a slight stimulation. A single layer of a handkerchief produces enough resistance in such cases. An ordinary towel is best to use in chronic rheumatism and similar affections.

Loss of weight, lack of appetite, general weakness, lassitude and similar conditions as a rule indicate Anemia or impoverished blood and poor circulation, commonly called

The Master Violet Ray primarily increases the blood circulation. It does what the worn out, run down body cannot do naturally. Disease germs are, therefore, fought and consumed, poisons are dissolved and carried away.

C: AS AN INTERNAL ANTISEPTIC

Wherever the Violet Ray comes in contact with the oxygen in the air it changes a part of that oxygen into what is known as ozone, a concentrated form of oxygen that is a great many times more active than that in the air. Oxygen in the blood has the remarkable quality of burning up dead or diseased cells without burning up those that are healthy, and it is the only antiseptic known that can be taken directly into the body with this effect.

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for BEAUTY, HEALTH, STRENGTH

For this treatment the Master Ozone Generator shown on page 20 may be used with any Master machine for the purpose of obtaining large quantities of ozone for inhalation. The effect of inhaling ozone is much the same as that of inhaling large quantities of pure air, or even pure oxygen. It purifies and enriches the blood, invigorates the body and causes pure oxygen to be taken up in large quantities in the blood stream.

Ozone inhalation is of particular benefit in the treatment of respiratory disorders. Taken into the lungs it attacks the diseased cells and causes them to be oxidized and thrown off with the exhaled air. It is a most essential form of treatment for asthma, hay fever, and all lung, throat and nose cases.

This treatment may also be obtained by using a surface applicator and applying it to the surface of the body nearest the seat of the trouble. As the Violet Ray leaps from the applicator into the body it carries with it minute quantities of this concentrated oxygen which is thus injected directly into the tissues and blood. This is known as cataphoric action and has the effect of overcoming the lack of oxygen in the blood by charging it with an added quantity.

As Applied for Specific Conditions and Ills, The Hair, Scalp and Skin

If you do not feel well you cannot look well. Many women realizing that good health is essential to real beauty and the prolonging of youth use the Master Violet Ray with faithful regularity. The results obtained through its applications will be a revelation to you and in a remarkably short time will bring your body, health and appearance to that condition that Nature intended it should be. Rich, red blood is brought to the

skin with the use of the Violet Ray. It nourishes the tissues and cells and brings the radiant hue of health and beauty to the skin. All facial blemishes quickly vanish.

Practically every disease of the scalp and hair, as dandruff, falling hair, etc., can be traced to the improper circulation of the blood flowing through the scalp. The roots are fed through the blood, which flows through small capillaries in the scalp almost microscopic in size. Because of their smallness, they become clagged very easily, as a consequence of which most persons are affected with some form of scalp disease. To overcome scalp disease, it is first necessary to remove the cause, and as this is poor nutrition due to faulty circulation, the Violet Ray naturally suggests itself as the ideal remedy.



For treating the scalp we have a special comb electrode which conforms to the shape of the head and pulls easily through the hair. Millions of tiny electric sparks jump from

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the applicator to the scalp, carrying with them pure ozone which acts as a germicidal agent and destroys any foreign organism which may be present. The tiny nerve and blood vessels are gently massaged, the blood starts flowing and nourishment is brought to the roots of the hair.



By the first treatment a warm, glowing, healthy feeling is brought to the scalp, and with a few successive treatments great improvement will be noted. The hair very quickly takes on a natural, glossy and healthy appearance. The use of the Violet Ray for a few minutes each day will make the hair, thick, healthy and beautiful.

The Violet Ray is used by all modern beauty specialists in the treatment of the hair and skin.

Neuritis

Neuritis, as commonly understood, is rheumatism of the nerves. Although any nerve may be involved, the name neuritis is confined almost entirely to inflammation of the

brachial nerves, which run from the upper part of the spine across the shoulders and down the arms. When the arms are lifted slightly, sharp, twinging, shooting pains are felt in the arms and shoulders. Temporary relief can be secured by the use of properly applied heat, but permanent results can be affected only by relieving the inflammation and removing the cause of the pain.

Treatment should be with a very mild current gently applied to the pain area for about three minutes several times daily. As these nerves react very quickly, the first few treatments should be mild and short, but as the nerves become accustomed to it the treatment should be increased in strength and duration.

Not only does the Violet Ray improve health, but a permanent relief is secured by relieving the inflammation and removing the cause of the ailment.

Rheumatism—Lumbago

One function of the blood is to dissolve and carry away poisons. When circulation becomes sluggish or impaired these poisons, instead of being carried away, are deposited throughout the system, most commonly at the joints. At first this causes slight annoyance, but continued deposits results in the joints becoming solid, swollen, and severely painful. This condition is known as Articular Rheumatism, and will act upon the muscles in a similar manner, resulting in what is commonly called Muscular Rheumatism.

Inflammation of the nerve or muscles situated immediately below the small of the back is known as Lumbago. These pains are most apparent when the body is inclined forward or sideways, or when these muscles and nerves are brought into use.

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for BEAUTY, HEALTH, STRENGTH

Application of the Violet Ray to the affected parts restores circulation to normal, drives oxygen directly into the blood and results in a consequent dissolution of the poisonous deposits causing the ailment, thereby relieving the inflammation. Increased quantities of nourishment brought by the invigorated circulation build up and restore the affected part to normal.

Headaches-Insomnia-Brain Fog

A headache is a symptom of some local or constitutional derangement and not a distinct disease. Few drugs are directly curative and some are paralyzers of the heart while others destroy the red blood corpuscles.

When the Violet Ray removes pain it also builds up the forces of nutrition and general health. One of the most common uses of the Violet Ray is the removal of headache and in such a way as to leave the system in a normal and not a "doped" condition. Long, losting relief is the rule, but some forms of pain return, and for these regular and persistent treatment is required.

Adequate and refreshing sleep and brain rest is necessary to good health. Inability to obtain these necessities is a very trouble-some symptom which one should not neglect. There is no substitute for adequate sleep and rest. The Violet Ray, by its sedative action, tends to soothe and calm the nervous system and equalize the circulation, thus restoring this most essential capacity to normal.

Metabolism—The Secret of Health

Perfect health depends upon the proper functioning of the combined building up and tearing down processes that are continually going on within our bodies and which are commonly described as Metabolism. Human energy is produced by the oxidizing, or burning up of certain elements in the cells and tissues throughout the body. This process is responsible for the heat of the body.

For the purpose of maintaining health, these elements that are being burned must constantly be replaced by nature. All too fre-

quently, however, the balance ordinarily maintained between these processes is disturbed by a deficiency or surplus of new material. In cases where there is a deficiency the parts affected become wasted, weakened, and an easy prey to disease. In the second case they become flat, flabby and enlarged and, as a consequence, are unable to function properly. In either case the result is poor health.



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A person's age, in terms of health and appearance, is governed by this process of metabolism. In early life the building up process is dominant and we have a period of growth and development. In the early twenties the stationary point is reached where



the two are balanced. As long as this balance is maintained health is good and the human body is possessed of the buoyant energy and vitality characteristic of young manhood and womanhood. A disturbance of this balance results in the loss of this vitality.

The tearing down process dominates during the period of old age or decline. It is independent of years, however, and frequently begins in persons under thirty. With proper care, however, the building up process can be made dominant for many years and the rayages of old age postponed indefinitely.

Metabolism depends largely on the quality and proper circulation of the blood. A proper amount of oxygen is necessary in the blood to oxidize the body tissues and thus furnish energy. Tissue building elements must be supplied through the blood to replace those

that are oxidized, and disease germs which find their way into the body must be

Every person who needs concern himself or herself with the subject is familiar with the symptoms of old age. Suffice it to say that the first indication is the loss of buoyancy felt in early life, followed by minor disorders which gradually grow more serious. It is highly important that these symptoms be overcome in their earliest stages.

The Violet Ray not only prevents the premature appearance of these symptoms, but will remove the cause of them after they have become apparent, if properly used. It does this by normalizing Metabolism—by working through the blood stream and equalizing the two processes necessary to perfect health.

Violet Ray treatments increases the oxygen content of the blood, thus hastening the oxidizing process in the tissues and causing waste material to be thrown off. It energizes every cell, causing new tissues to be built in a normal way and assisting in the removal of surplus fat and foreign deposits. By the addition of its ading the processes of digestion, assimilation and excretion it can be readily seen that it will correct the tendency to premature age by the normalizing of every body function.

Prostatic Diseases

The most distressing ailment, common to so many men of middle age, is one in which the high frequency current is almost a specific.

Medical authorities agree that more than sixty per cent of all men past middle age (many much younger) are afflicted with a disorder of the prostate gland. Aches in feet,

legs and back, sciatic pains, and impotence are some of the signs. No man should approach the prime of life content to regard these pains and conditions as inevitable signs of approaching age.

In treating the Prostate through the rectum place the patient on one side in the Sims position with the knees well drawn up. Electrode No. 22 well lubricated, is then inserted in the rectum about six inches with the depression in the tube turned toward the front or anterior wall of the rectum so the gland rests into depression for best results. In Prostatic diseases of all kinds the High Frequency current has proven most efficacious. The duration of each treatment is three to five minutes. Extraordinary results are accomplished in all of Prostatic diseases. Enlarged Prostate should show improvement from the very first about two or three treatments a week. Treatment by or under direction of a physician is advised. Same treatment for senile hypertrophy, impotence, etc. Two or three treatments α week, then skip α month.



Nervous Affections

No wider field of application is served by High Frequency current than that of affections of the nervous system.

In the treatment of nervous diseases by the use of drugs there is always a question of reaction and the elimination of the drugs. No two people are alike and cannot be treated alike; some are susceptible to certain drugs and others not, whereas the Violet Ray can be so applied as to be tolerated by everyone.

The average sufferer from nervous disorders is chary of electrical treatment because of the fear of shock, burning, etc. His impression has been gained from experience with galvanic and faradic batteries and other devices, the treatment from which is harsh and unpleasant.

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VIOLET RAY INSTRUMENTS

To such sufferers the mild, soothing, painless Violet Ray current comes as a positive boon. The tendency to fear is entirely eliminated, and the sedative restful after effect is welcomed and enjoyed.

Most of the functional neuroses may be benefited by High Frequency.

Keep This in Mind

Do not be afraid of the Violet Ray High Frequency current. It never harms. It causes no shock. Use Violet Rays freely so that you may familiarize yourself with their peculiar nature.

Violet Rays grow in their usefulness the more you study their action and effect. Make it clear to yourself what you wish to accomplish. If you want a soothing effect, do not apply a strong spray by holding the applicator distant from the part to be treated: make a close contact inside with the bare skin. If you wish stimulation treat through the clothing with a current strong enough to reach your tissues. If a tranquilizing effect to quiet the nervous system is desired, do not use a current strong enough to cause irritation. Let these be the guiding principles to you and the result in the use of the Violet Rays will be surprising.

In simplicity of operation, wide range of adjustment, durability, beauty and unique construction. Master Violet Rays are the ideal all-purpose generators. Their superiority has remained unchallenged for twenty years.

Unless otherwise specified, all machines will be furnished to operate on standard voltage of 110 to 120 A. C. and D. C.

Machines can also be furnished to operate on 220 volts and 32 volts. Our 220-volt windings will run on both A. C. and D. C. current. Voltages are from 200 to 240 volts.

The new models of Master Violet Ray machines shown herein, are the result of years of experience in the exclusive sale and manufacture of these products. All Master machines are manufactured of the best material obtainable by highly skilled, experienced workmen. Our various inspections are the most rigid it is possible to give.

Introducing a new line of Violet Ray Machines that, in addition to their highly regarded and unquestioned therapeutic value, have a beauty appeal in every line of their new design.

Molded from Bakelite in a harmonious blend of jade green and ebony black, these new MASTER machines have an angular surface that prevents slipping while in use and does away with the danger of rolling off the table or dresser. Never before has a Violet Ray Machine achieved such a handsome and striking symmetry. The carrying cases, too, have been improved in appearance to further the color scheme. Another important improvement of the carrying case is the coiling of the cord which prevents knotting and breaking.

These new green and black housings are now supplied on all Master one-piece machines: the No. 9, No. 2B, No. 15 and No. 17 Violet Rays.



Master Violet Ray No. 9

Newly designed and embodies many superior features. Sells at the lowest price at which a one-piece machine with a shock-proof Bakelite handle has ever been offered. Complete with attractive carrying case of exceptionally substantial construction and general electrode.

Price, 110-125 Volts\$9.00

For 220 or 32 volts, add \$1.50.

Special Feature Found Only in Our Violet Ray Instruments

A very important feature of all Master Violet Ray machines is the special patented Master Electrode socket terminal which is a part of the resonator coil. Should the electrode break, the coil can simply be unscrewed from the housing and the electrode and easily removed by inserting a screw driver or knife in the insertion, as shown in illustration.

In the past, where the electrode has broken, it has been necessary for ractically all users to take these to an electric shop or repair man to have the electrode end removed. This annoyance is altogether eliminated, both to the user and the dealer, by the patented Master Electrode Terminal socket, which is found only on Master Violet Ray machines.



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VIOLET RAY INSTRUMENTS

VIOLET RAY INSTRUMENTS



Master Violet Ray No. 2B

This machine is of the one-piece type that is, the entire outfit is contained in the handle and there is no separate coil contained in cabinet or carrying case. For those who desire simplicity in appearance and operation, this Master One-piece type machine offers the greatest efficiency possible. It is without question the greatest value ever offered in a one-piece outfit.

The entire mechanism is enclosed in a beautiful highly polished bakelite housing. It is light in weight and comes equipped with a handsome seal grain carrying case. Surface Electrode No. 1, Comb Electrode No. 3 and No. 12 Metal Electrode.

For 220 or 32 volts, add \$1.50.

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Master Violet Ray No. 15

This wonderful new model represents the latest development in a one-piece outfit. Due to our special type of construction the machine cannot be thrown out of adjustment by turning the adjustment knob too tightly and locking the vibrator springs, a defect found in most other one-piece outfits.

For 220 or 32 volts, add \$1.50.

Our adjustment is a piece of precision mechanics, highly developed, accurate and dependable. The arrangement of adjustment prevents locking of vibrators, thus eliminating burning out of the coils. This is a feature of all Master machines. Our handles are molded in one piece so that there is no leak from the nazzle.

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VIOLET RAY INSTRUMENTS

VIOLET RAY INSTRUMENTS



Master Violet Ray No. 11

This machine comes equipped with three Electrodes—Comb, Throat and General contained in a very beautiful carrying case. The magnet coil is mounted on a highly polished Formica plate. Coils and condensers are oversize to prevent overheating and the Tesla coil is designed to stand hardest usage. The handle of the machine is constructed of vulcanized hard rubber and is shock proof.

Price, 110-125 Volts ...

For 220 or 32 volts, add \$1.50.

Master Violet Ray No. 10A

This machine is the same as No. 11 illustrated above except that it is equipped with the No. 1 Generator Electrode only. The machine is packed in handsome container. Price .

For 220 or 32 volts, add \$1.50.

Our 220-volt windings will run on both A.C. and D. C. current. Voltages are from 200 to 240 volts.

The carrying cases on all Master Violet Rays are designed for beauty and service. The very latest materials and designs are used to make them serviceable, and ultra modern in appearance.

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Master Violet Ray No. 17

This excellent model has been added to our already complete line for the purpose of supplying a large number of our customers with a machine having a condenser electrode as a part of its equipment. The applicators included with this outfit are General Electrode No. 1, Condenser Electrode No. 2, Comb Electrode No. 3, Throat Electrode And Metal Electrode No. 12, All equipment is enclosed in a handsome green silk lined carrying case. The addition of the popular and useful condenser electrode makes this outfit an article of exceptional utility and a real value.

List Price, 110-125 Volts..

For 220 or 32 volts, add \$1.50.

All Master Violet Ray Outfits are designed to work on standard current, 110 to 120 volts, A. C. or D. C.

The output of Master instruments is truly marvelous, not only is the amperage tremendously high at the full adjustment, but the milli-amperage is great in volume, causing much heat at the point of application to the body, an effect most desirable and not found in other instruments.

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VIOLET RAY INSTRUMENTS



Master Violet Ray Outfit No. 8

This machine is designed to meet the demand for a complete Violet Ray equipment of the two-piece type for home and profession, at a moderate price.

The case is designed to hold five electrodes, which are contained in a separate compartment with clips to hold the electrodes. A flap separates this compartment from the Generator. The case is velvet lined and very attractive.

The equipment consists of the Surface Electrode, Comb Electrode, Throat Electrode. Cautery Electrode and Metal Saturator.

A beautiful finished, quality product. Distinctly a Master Product.

List Price\$25.00

No extra charge for special voltages.

Every point of construction, every piece of material used, is given careful attention with the view of placing in the purchaser's hands the best your money can buy. An instrument that will give service when needed and one that will not break down under continued use.

We manufacture only high grade, substantial machines. Quality considered, the price is most reasonable, within everybody's reach.

· Page Eighteen ›

VIOLET RAY INSTRUMENTS



Combination Outfit

This very complete outili, equipped with a high frequency unit of three-condenser capacity and vibratory apparatus, presents the two recognized methods of electric application.

approaction.

The high frequency generator is equipped with extra capacity condensers and has very great penetrative power, developing a current of great therapeutic value. Individual condenser operation and the operating strength of the current on each condensers can be regulated by means of the handy switch and adjustment knob respectively, both of which are plainly marked and mounted on the beautifully engraved panel of black bakelite material which contains all controls.

controls.

Vibratory treatments are secured from the universal current motor driven vibrator equipped with speed controls. This apparatus can be operated by inserting the plug in the vibrator outlet mounted on the panel, or independently of the rest of the machine, if desired. High frequency equipment consists of General, Comb, Throat, Eye, Spinal, Metal and Cautery Electrodes. Facial, Scalp and Body Applicators are furnished as part of this vibratory equipment. The entire unit is enclosed in a handsome leatherette carrying case lined with red velvet. The very finest outlit that can be secured. You will find nothing finer on the market at any price.

No extra charge for special voltage. This machine can also be furnished without vibratory equipment. When so furnished the vibrator outlet is always available for use in connection with a vibrator already in one's possession or which may be purchased later.

· Page Nineteen ·

VIOLET RAY ELECTRODES



Ozone Generator No. 28

The Ozone Generator is a special applicator designed for direct medication in nasal, throat, branchiol and lung affections. It generates enormous quantities of ozone. Ozone is a foint blue qus composed of exygen and is formed by the passage of an electrical discharge through air, Outdoors, we get ozone after at hunderstorm and indoors, the same effect can be produced mechanically with Violet Rays.

Ozone treatments are very beneficial, and excellent results are carried to the control of the contr

stroying germ life, and soothes the inflamed tissues.

Directions for Operating Ozone Generator

The generator is pushed into the instrument headle and after filling the inhelment chember one-tiffic the shadown of the current is turned on. The right hand is then put around the come chamber while the other hand actuates the pressure bulb at convenience. The nostrils are placed over or light against the nose-piece, and the ozone is forced down through the nose into the lungs by pressing mouth by changing any of the made through the mouth by changing one of the convenience of the properties of the properties of the properties of the strong hit, allowing particles of it to be carried along in the form of vapor.

Our new type Ozone Generator may be used as an action of the convenience of the Generator was an action of the convenience.

atomizer.

The complete outfit consists of the Generator, a nose-piece, a mouth-piece, pressure bulb, inhalant solution.

Complete with all attachments.......\$10.00

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VIOLET RAY ELECTRODES

ELECTRODES AND APPLICATORS

Vacuum Glass Electrodes for High Frequency Violet Ray Application are made in two types: Plain, or non-insulated and insulated, insulated electrodes are used for Oroficial Treatment mostly, as they deliver a greater quantity of current at the desired locality.

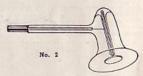
Master Electrodes are made of the best grade of special glass, which will stand heavy usage without signs of deterioration. The vacuum in Moster Electrodes is porfect, The ends of the electrodes are protected by metal caps, which insure greater life. All electrodes are carefully tested and packed.



NO. 1 GENERAL ELECTRODE.—For facial and body treatment, and for any surface application. This applicator is supplied with all Master Violet Ray machines as a part of the instrument.

Price \$1.00

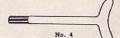
No. 2 CONDENSER ELECTRODE.—As the name implies, it condenses the current, and produces a strong, even flow; clao generating electrical heat, which is very desirable in deep sected cases. Used for Rheumatism, Lumbago, Neuritis, etc.

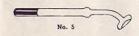




NO. 3 COMB-RAKE ELECTRODE.—Used for all scalp treatments; Falling Hair, Dandruff, Gray Hair, and for stimulating the hair cells.

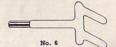
NO. 4 THROAT ELECTRODE.—Designed to fit over the neck. Excellent results have been accomplished with this electrode in Goitre, Tonsilitis, Double Chin.\$1.50





NO. 6 SPINAL ELECTRODE.—For all Spinal treatments, Arranged so that it fits over both sides of the veretebrae.

Price S1.50



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VIOLET RAY ELECTRODES



NO. 7 DOUBLE EYE ELECTRODE.—This electrode is used for the same purpose as the No. 5 Single Eye Electrode, but is de-signed for the treatment of both eyes at once. It distributes the current evenly to both eyes and is recommended where both eyes are to be treated.

NO. 8 SMALL CATAPHORIC ELECTRODE.—This electrode is made with an indentation on the surface to hold obsorbent cotton and liniment of any kind. It is used in the treatment of Bheumatism, Lumbago, Neurolgia, or in fact, wherever liniment is used in connectivolet flay machine. No. 8 connection with any Master

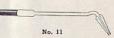
NO. 9 LARGE CATAPHORIC ELECTRODE.—This electrode is used for the same purpose as No. 8, but has large capacity, and greater space for cotion and liniment. Used in the trediment of Rheumatism, Lumbago, Neuritis, etc., or wherever liniment is used. Price\$4.50



No. 10 SPATULA OR TONGUE ELECTRODE. Used for treatment of the mouth or tongue, as its name implies.

Price \$2.00

NO. 11 INSULATED EAR ELECTRODE.—This electrode has been specially designed for treatment of the ear. It is used for the treatment of all Catarrhal conditions in the ear, and for earache, deafness and head noises, etc.





NO. 12 METAL ELECTRODE.—This delivers a strong current and is excellent for general tonic and where constitutional effects are desired. When held by the patient, there is no miscular contraction, merely a sense of warmth through the entire body. The current can also warmth through the entire body. The current can also Price

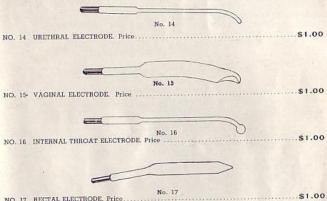
ORIFICIAL TREATMENTS

All Orificial Electrodes must be lubricated before insertion. For the sake of safety there should be two people in Orificial work, the patient and operator. The current should be turned on after inserting the electrode into the orifice and turned off before removing the electrode. Orificial treatments are never painful. The electrode should be moved slightly to avoid sticking of mucuous membranes. Treatments are not to be continued longer than five minutes. The best method of giving criticial treatments is to use the Metal Electrode No. 12 in the machine and apply to the metal cap of the critical electrode after this has been inserted. Treatments about not be aftered to go if the orificial electrode after this has been inserted. Treatments about not be aftered by unskilled persons without the instruction and supervision of a competent practitioner.

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VIOLET RAY ELECTRODES

Oriticial Applicators are illustrated solely for the benefit of physicians and other licensed practitioners. Under no circumstances should treatments be attempted by unskilled persons without competent supervision.



NO. 17 RECTAL ELECTRODE. Price

NO. 18 CORN ELECTRODE.—This electrode is used for the treatment of corns. It fits snugly over the corns. Price \$1.00

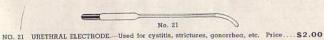
INSULATED ELECTRODES

INSULATED ELECTRODES

The advantage of insulated tubes is that the current may be introduced without loss into the orifice of the body. In using plain electrode for an orifice, much of the current is lost at the first point of contact. For instance, if the prostatic gland is being treated with the plain electrode, much of the current is drawn off at the opening of the rectum, but if the insulated tube No. 22 is used, the current is conveyed to the desired point without loss,



NO. 20 INTERNAL THHOAT ELECTRODE.—Used for tonsilitis, hypertrophy of the tonsils, ulcers

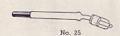


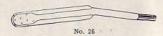
VIOLET RAY ELECTRODES



NO. 23 INSULATED RECTAL ELECTRODE. Price.......\$2.00







CARE OF ELECTRODES

Keep the electrodes clean. Washing with warm water and soap is sufficient. Electrodes will stand heat and can be boiled in water.

The electrodes will burn out in time much on the order of an electric light bulb. When difficulty arises with the machine it is usually due to the electrode being burned out. Try another electrode before concluding that the trouble is with your machine.

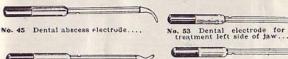
VIOLET RAY ELECTRODES

DENTAL ELECTRODES



No. 43 Dental electrode ball shaped No. 51 Dental fulguration elec-

No. 44 Dental kataphoric (cocaine) No. 52 Dental electrode for gum treatment inside of jaw.....



No. 53 Dental electrode for gum treatment left side of jaw.....

No. 54 Dental electrode for gum treatment right side of jaw

High Frequency currents have a wide and growing use in dentistry. These uses include treatment of pyorrhea, in drying cavities, sterilizing root canals, bleaching teeth and locating devitalized teeth.



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^{*} Page Twenty-four *

VIOLET RAY TREATMENTS

Use Your Violet Ray Outfit as a First Aid

There is no quackery or uncertainty about the Violet Ray High Frequency Current. It is a thorough cell massage and a wonderful stimulant, and while it is by no means put forward as a cure-all, yet it is of the utmost cid in restoring to normal the physical condition impaired from almost any cause. The results obtained are universally beneficial and can never in any instance be harmful.

Violet Ray Treatments

The following are but suggestions, incomuch as in most instances the individual will develop a technique suitable to his own particular case.

Violet flay treatments need not be of long duration. Short treatments at frequent intervals are very effective. Always start with the weatest current possible in order to avoid the initial discharge, which occurs when the electrode is brought in contact with the body. Make onitial with the electrode quickly when beginning and fainthing the treatment. If metal objects such as hairpins, corset steels, chains, etc., cannot be avoided during the treatment, they should be removed.

removed. The suggestions for the treatment of disease outlined below have been taken from cases where physicians or clinics have obtained excellent results. Not all cases will be cured through High Frequency alone, but in every case it is a valuable adjunct to other treatments; in tact, many cases have been greatly benefitted where medical treatment has failed. The suggestions are given for the benefit of physicians using our apparatus. Under no circumstances should criticial treatments, or the treatment of any serious disease or condition, be given without first consulting a physician. It is not our purpose that the Master Violet Ray be used as a substitute for the services and attention of a competent medical adviser.

while the use of the Violet Ray is being advocated by physicians and protessional persons throughout the country, it must be remembered that it is not sold as an infallible remedy for any ill and that there are physicians and other practitioners who have not become educated to its use and who consequently do not recommend it. It is a matter of common knowledge of course, that medical theories are open to dispute within the protession as are the theories of any subject. When viewed in this light, and in consideration of the widespread use and popularity of the Violet Ray, the attitude of those dissenting members of the profession is open to considerable discussion.

Treatments

ATHLETE'S FOOT—In many cases excellent results have been obtained by massaging the foot and toes with the General Electrode. Five minute treatments as often as desired until relieved.

and toes with the General Electrode. Five minute treatments as often as asserted until Moreover, ALOPECIA OR FALLING HAIR—(Hot oil shampoo before starting treatment)—Use Comb Electrode No. 3. Use a mild current at first, which can be increased with treatments. Pass the comb back and forth over the entire scale for about live minutes every day. The same treatment can be used for gray hair in restoring it to natural color. Use same treatment for baldness. Do not use the Violet Ray on the hair immediately after applying any preparations containing more than forty per cent of alcohol.



ACNE (PIMPLES)—Treat the entire surface for about seven minutes with the Surface Electrode No. 1. If the skin is damp, either apply talcum powder or treat through handlerchief or other clean cloth. Use a medium current.

ANAEMIA—General application to the entire body. Treat with Surface Electrode No. 1 over the chest, and Throat Electrode No. 4 on throat qlands, the treatment to last from five to ten minutes. The Ozone Generator is also of the utmost benefit.

AMENNORRHEA, IRREGULARITY, SUPPRESSED MENSES—With the Vaqinal Tube No. 24 or 26 cm emmenagog effect can be produced. Apply any antiseptic lubricant to tube. Give ten-minute treatments every other day. Also apply Surface Electrode No. 1 to spine, five to ten minutes.

ABSCESS—To abort an abscess, the use of the Surface Electrode has been found to be the most beneficial. Keep tube in contact with skin. Apply any antisptic lubricant on tube before applying. Give five to ten-minute treatments.

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VIOLET RAY TREATMENTS

ASTHMA—Apply Surface Electrode No. 1 or Condenser No. 2 over the chost and throat glands for about 5 minutes with a strong current. Treatment of Asthma is also found to be very successful by the use of the Ozone Attachment, filling it with 1 dram of Oil of Pine; 1 dram of Oil of Eucalypto; 5 minims Beechwood Creesote. Inhale 3 to 5 minutes daily.

ATAXIA—Use as strong a current as can be tolerated to spine, over abdomen, and back of legs. Give milder treatment as improvement is noticed.

gs. Give milder treatment as improvement is noticed.

BARBER'S ITCH—General treatment with Electrode No. 1 for 5 minutes daily.

BLEPHARITIS—INFECTION EDGES OF EYE LIDS—Excellent results can be produced by the use of the Eye Electrodes No. 5; treatments 10 minutes daily. Also use Throat Tube No. 4 to go around area of the conjunctiva or mucuous membrane of the eye, 5 minutes

BOILS—FURUNCULOSIS—In treatment of Boils, excellent results have been obtained by giving a light spark around area of infection with the Surface Electrode No. 1 and then applying the electrode direct on same twice daily, 5-minute treatments.

BRUISES—Use Surface Electrode over area af-cted. Treatments about 5 to 10 minutes. Medium strong current.

BUNIONS-Use Surface Electrode in direct con-tet with skin, with medium current for about 5

BRAIN FAG—Use Applicator No. 1 over fore-head and eyes. Also treat the back of head and neck with strong current in direct contact with the skin. Treat the spine and hold the electrode in the hand. Ozone inhalations for about four minutes are also of importance.

BLACKHEADS—A mild to medium treatment of five minutes daily. Use Surface Electrode No. 1, and apply talcum powder before treating.

BRONCHITIS—By the use of the Ozone Attachment very beneficial results and great relief can be obtained immediately. Use same mixture as in treatment of Asthma.

CARBUNCLE—Use the Surface Electrode N cipplying same direct, 10 to 15 minutes daily

CALLUSES—Use a strong electric current with Surface Electrode No. 1. The current can also be applied by holding electrode a short distance from the skin.

CALLUSES—Use a strong electric current with Surface Electrode No. 1. The current can also be applied by holding electrode a short distance from the skin.

CARBUNCLES-The treatment prescribed for Boils should be followed in treating cases of

CATARRH, NASAL—In this condition the Nasal Tube is used within the nose with a mild current within the nosal passage, two to five minutes on each side, followed by an application with the Surface Electrode externally over the area of the nose. Use Ozone Generator.

CHILBLAINS—Use Surface Electrode with strong spark applied directly to the skin. Treatment to last about ton minutes.

to last about ton minutes.

COLD EXTREMITIES—Apply Surface Electrode direct to affected parts, using a strong spark for about live minutes. Also apply electrode to the spine; keep the electrode about one-half inch from the skin until the surface is red.

CONSTIPATION—Apply Surface Electrode over the bowels. Apply for about ten minutes, moving the electrode. Use a strong current. Physicions use Rectal Electrode No. 23 for insertion into the rectum. Orificial rectaments last about five minutes.

DEPERBUTE—Directions for the fractument of Alopeace are applicable in cases of this nature.

DEAFNESS, EARACHE AND EAR DISEASES—Apply Ear Electrode with very mild current into e ear. Care must be exercised so as to not touch the ear drum. Three to five minutes is suf-

ECZEMA—By the use of the Surface Electrode No. 1 excellent results have been obtained by giving the patient as much current as can be endured. Another beneficial way of treating is to apply gauze over the area and go over same with the electrode.

FROST BITES—Instructions outlined for the treatment of Chilblains may also be adapted to the treatment of this allment.

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2

Pains in Back Quickly Relieved

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VIOLET RAY TREATMENTS

GOITRE—In Goitre cases, by the use of the Surface Electrode No. 1 the tube should be kept in light contact with the skin, treating the sides of the neck as well as over the Goitre itself, giving tea.-inituate treatments daily.

GONORRHEA—In sub-acute or chronic forms marked beneficial results have been obtained by the use of the Urethral No. 21 or Yaqiinal No. 24 Electrodes. Apply any antiseptic lubricant on tubes before inserting. Give seven-minute treatments daily

GLEET—By the use of the Urethral No. 21 and the Rectal No. 23 Tubes unusual results are been obtained. Insert same with any antiseptic lubricant, giving ten to lifteen minute treat-

GOUT—Apply Surface Electrode to the spine to stimulate the system. Then apply Surface Electrode to the painful area with a medium current, keeping the electrode in contact with the skin, but moving same about. Pain may be noticed at first, but results are certain if treatment is continued.

GREY HAIR—The natural color of the hair may often be restored by continued and patient treatment with Electrode No. 3. See Alopecia. Several months are usually required for results. Use a mild current for stimulation at least once a day.

HAY FEVER—Apply Surface Electrode over the nose and along the spine with medium current for five minutes. Apply Electrode No. 19 in nostrills for a short time. Treatment must be about duration but frequently repeated. Use the Ozone Generator freely, it being advisable to Ozonie the online room with it. For satisfactory results treatments should commence two or three weeks for period of attack.

HEADACHES—Frontal and Occipital Headaches are relieved by using the Surface Tube No. 1 over the seat of the pain. Keep the tube in losse contact and prolong the treatment until relief takes place which usually takes from 5 to 10 minutes.

HEMORRHOIDS—With the use of Rectal Tube No. 23 temporary relief may be obtained by giving live-minute treatments daily.

HERPES, ZOSTER—Application of the Condenser Tube in the cruption of Herpes. Recovery can be hastened by giving ten-minute treatments daily. Three to five treatments are usually suiticient.

IMPOTENCE—The most beneficial way of treating this condition is by the use of the Prostatic Tube No. 22 with plenty of spark. Use the Surface Electrode No. 1 slightly raised over the area of the spine from five to seven minutes delly.



Perfectly Harmless-Can Be Used for Baby

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INSOMNIA—The method most beneficial has been the use of the Condenser Tube, which is kept in light contact with the back of the head and neck, going down the spine for about five minutes before retiring.

JAUNDICE—By the use of the Condenser Electrode great relief can be obtained. Apply electrode over the area of the liver ten minutes daily.

LARYNGITIS—The Throat Electrode either by the loose contact or mild spark will greatly aid in treatment of this nature. Ozone inhalations are most advisable.

LUMBAGO—Apply the current through the clothing with as strong a current as can be tolerated. Continue treatment until pain is gone. Keep the electrode moving and give long treatment.

LEUCORRHEA—Use Vaginal Electrodes No. 24 or 25, lubricating before insertion. A medium treatment for five minutes is applied and repeated as circumstances require. Current should be turned on after insertion of electrode and off before removal of electrode. Antiseptic douches in

NEURALGIA—To obtain a hurried relief of Neu-ralgia, the Surface Electrode No. 1 should be used. Pass back and forth in light contact with the skin, giving ten-minute treatments as needed.

VIOLET RAY TREATMENTS

NEURITIS—Use Surface Electrode for five minutes at a time. Several treatments a day are advisable. Use light current at first and gradually increase same. Apply locally or to entire body, depending upon the condition.

OBESITY—Apply Surface or Condenser Electrode No. 2 for fifteen minutes twice daily. Use very strong current. Fais will be consumed by increase of oxidation but diet must be reduced and watched.

PARALYSIS—Use Electrodes No. 1 or No. 2. Treat paralyzed muscles, employing a curtent strong enough to produce a half or three quarter inch spark. Part of the time keep the applicator in contact with the skin and part of the time raise it above the surface to get effective spark. Treat as directed by physician.

PLEURISY—Use the Condenser Tube over the front and back of the chest until a marked reddening of the skin indicates a counter irritation. Two or three treatments are necessary in acute cases and one daily in chronic

PSORIASIS—This is treated by the same technique as that employed in Eczema,

technique as that employed in Eczema.

RHEUNATISM—Use Electrode No. 2. High
Frequency currents are of exceptional value
in muscular and the mic articular rheumatiam. The pain will muscular application
of High Frequency massage, the propriation
of High Frequency massage, the propriation
if necessary. Follow with fairly strong point
until pronounced redness is produced. This
treatment persistently followed has in many
cases resulted in a cure. While some relief
may be obtained in one treatment, but permanent cure requires much time and patience.
Treatment: Ten to fifteen minutes daily.

3

Rheumatic Pains in Limbs Disappear After Few Minutes Treatment

RINGWORM—Use the surface Electrode and apply short sparks several times α day with a medium current for several minutes.

SCARS—By the use of the Surface Electrode No. 1 a softening effect can be produced on scar tissue, treating same five to seven minutes daily.

SCIATICA—Apply the Condenser Electrode along the course of the nerve and over the lower part of the spine, giving ten-minute treatments daily.

SINUSITIS—The use of Surface Electrode No. 1 gives a hurried relief by applying same over the area of the sinuses daily for five minutes.

SORE THROAT AND THROAT DISEASES—Use internal Throat Electrode No. 20 with medium current for five minutes, and the External Throat Electrode No. 4 on the outside of the throat for the same period of time.

STIFF NECK AND JOINTS-Apply Surface Electrode, using the same method as explained in Neuritis.

URTICARIA (HIVES)—Urticaria can be quickly eliminated by the use of the Surface Electrode No. 1, going back and forth over the area for ten minutes daily until condition is gone.

WARTS AND OTHER SMALL GROWTHS—The No. 25 Cautery Electrode should be used, as it throws a fine, sharp spark. Apply to growths long enough to cauterize the surface. A few seconds is usually all that is necessary. Wait a day or two for results and, if necessary, repeat. Where there is no Cautery Electrode the Surface Electrode can be used by holding it about one-eighth inch from the growth and allowing the sparks to pass from the edge of the glass. WRITER'S CRAMP—In this condition a burried relief can be affected by the use of Surface Tube No. 1 over the area of condition, using same until condition is relieved.

WRY NECK-TORTICOLLIS—Using the No. 1 or No. 2 over the area of the neck and down the spine daily for ten minutes, relief can be effected.

WRINKLES—Are commonly caused by using a given set of facial muscles more than normally. They can be removed by applying Electrode No. 1 or No. 5 with a rotary, massaging movement.

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MASTER OIL HEATERS

Heat and keep oils at correct temperature. Master Oil Heaters are constructed so the elements will not burn out. Made of polished aluminum, they cannot rust, corrode or discolor. Will last indefinitely.

Use of the Master Oil Heater No. 67 is the per-fect method of heating oil properly for hair treat-ments and melting cosmetics for toilet use.



MASTER MANICURE OIL HEATER

Heat and keep oil correct temperature for comfort, Master Manicure Oil Heater No. 68, is made of polished aluminum, cannot rust, corrode or discolor. Will last indefinitely.

Use of the Master Manicure Oil Heater No. 68 is the perfect method of reconditioning nails and softening auticle for better mani-

THE NEW MASTER COMBINATION TREATMENT CABINET

(Wall Plaie)
A VALUABLE EQUIPMENT FOR
THE PROGRESSIVE BEAUTICIAN

The Galvanic Current is used for Electrolysis; the removal of superfluous hair, moles, warts and other blemishes, contracting

tissues and for astringent effects.
The Faradic Current is indicat ed for stimulation of muscles, ton

The Particular Current is indicate and for stimulation of muscles, toning flabby tissues and aiding in removal of wrinkles.

The instrument operates from any 110-115 V., A. C. light current. In connection with the light current it is necessary to secure 45 V. B. Battery.

NOTE: — B Battery does not come with cabinet. Any radio or electrical dealer will secure you a 45 V. Eveready B Battery at small cost. Due to weight of battery it is advisable to secure locally.

A beautiful and complete equipment, with all necessary attachments as shown in illustration. Less B Battery.

220-240 Volts\$70.00

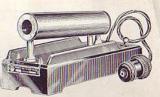


A - For 220 or 240 Volts add \$1.00

Master MARCEL IRON HEATERS

MASTER SINGLE IRON HEATER

This appliance represents the ideal type of This appliance represents the ideal type of heater for either protessional or home use. It is of attractive appearance and has an established reputation for durability and service. The price is a feature and is less than that usually paid for marcelling iron heaters which do not embody the wonderful improvements of the Master Heater.



MASTER TWO IRON HEATER

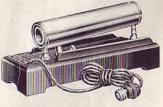
This heater is designed for the heating of two irons at one time and for this reason is sometimes preferred by beauty parlors for professional work. Has all the features of the single iron heater with increased capacity.

Price, 110-125 Volts\$6.50A

MASTER HEATER NO. 4

Embodies all features of the single iron heater except that it has no "on and off switch." Operates direct from light socket.

Price, 110-125 Volts\$4.00A





MASTER THREE IRON HEATER

The Master Three Iron Heater can quickly be brought to the proper temperature in the center hole and thereafter the proper degree of heat may be maintained by keeping the Iron in either of the outside holes.

A - For 220 or 240 Volts add \$1.00







The MASTER VIOLET RAYR

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The Master Electric Co.

CHICAGO

INTRODUCTION

T HIS book is written with the purpose of introducing the Master Violet Rays and explaining its superior merits in the treatment of physical disorders to those who have not already experienced its wonderfully beneficial effects.

To the thousands of users of Master Violet Ray Instruments, we need no introduction. The machines speak for themselves and the numerous commendations we have received testifying to the complete satisfaction given by these instruments, are sufficient proof that our unqualified guarantee is well founded. These users of Master Instruments know that for service, reliability and general satisfaction they can find no machine the equal of the Master.

To our new friends and potential customers we want to say, that for years we have endeavored to produce the best Violet Ray instrument possible at anywhere near the price. That we have succeeded in this is attested to by the many satisfied users who would have no other than a Master Violet Ray. We have maintained a policy of using first-class materials with high grade workmanship only, and by constant experiment and tests have produced a Violet Ray for home and general use that is without equal.

EVERY machine leaving our factory is thoroughly tested and inspected and is accompanied by our absolute guarantee. Any dissatisfaction will be immediately adjusted.

MASTER ELECTRIC CO.

VIOLET RAYS

The Violet Ray is a pleasant, effective means of applying the wonderful power of electricity to the human body without pain, sensation or shock, and is without an equal in relieving pain and congestion, stimulating the circulation and restoring good health, vigor and youth.

The Violet Ray is the ordinary electric current obtained from any socket, nebulized and split up into infinite parts and produced through glass applicators called electrodes, in a violet colored stream, hence its name, VIOLET RAY. A huge voltage of electricity is obtained and applied to the body or hair but without any shock, whatever, and the only sensation being a pleasant warmth.

Violet Ray Treatments surely relieve pain in any part of the body. The electrical currents penetrate every cell and tissue of the body, and tranquilize and soothe. Violet Rays stimulate and strengthen the vital organs, build up the natural forces, steady the nerves, and develop the general health and conditions of the body. High frequency electrical currents carry oxygen to the blood, thus purifying this vital body fluid. Violet Rays equalize the circulation in congested parts and restore bruised and inflamed tissues to normal.

A Master Violet Ray is applied through vacuum applicators or electrodes made of annealed glass. These electrodes diffuse the electrical current in sprays of a beautiful deep violet color. These sprays or sparks vibrate to and fro, or oscillate at the rate of several hundred thousand times per second. This rapid vibration is what produces the pleasing, invigorating and corrective effects derived from Violet Ray Treatments.

A few minutes' application each day, simply holding the applicator in the hand, furnishes a tonic to the system which does much to fight disease and keep the body in a healthy state. Inasmuch as prevention is to be desired a thousandfold rather than a cure, this one point alone makes the Master Violet Ray indispensable in your home. Many authorities state that impaired circulation of the blood causes most ailments. The Violet Ray by stimulating the circulation, thus wards off disease, saving you much unhappiness and suffering.

With the knowledge that electricity, Nature's greatest health agent, was a vital factor in the treatment of various dis-

eases of the body, there has been a constant untiring effort to improve the method of application and increase the power of this wonderful agent.

The wide use of electricity produced through various types of apparatus finally led to the discovery of the Violet Ray, otherwise known as High Frequency, which has solved many problems and today furnishes the most efficient and powerful phase of electricity known for the relief and destruction of the various diseases and germs of the body.

The Violet Ray offers a pleasant, effective means of destroying germs and banishing various diseases while building up the tissues and toning up the system generally. The Violet Ray while introducing all the power of electrical energy into the body, does so without the slightest pain, shock or contraction of muscles. In fact the application of the Violet Ray produces a pleasing sensation. The amazing results secured through Violet Ray treatment, immediately caused it to be accepted by the professions, and today you can hardly find any physician's office not equipped with Violet Ray Apparatus.

Now this remarkable factor is made available to you for use in your own home, at a price within the reach of anyone. We have built an effective Violet Ray in-

strument that is the essence of simplicity, made so a child may operate it, and at the same time we have an instrument that produces the Violet Ray unexcelled by machines costing many times as much without the unique and practical features of our instruments.



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WHAT VIOLET RAYS DO



Violet Rays or High Frequency
Currents benefit all living matter.
Through the glass vacuum applicator light, beat, electric energy and oxone are created. These forces are uniformly potent in relieving and eliminating human ailments. Violet Rays present a remedy upon which we can rely. They are positive and certain in action. They will reach where medicine does not and often cannot reach—yet they cause no pain, no disagrecable sensation, no discomfort. They furnish a sooth-infection.

The uses for the Master Violet Ray are practically unlimited.

Not only are ordinary pains and aches removed, but deep seated ailments of long standing are often entirely eliminated.

VIOLET RAYS SAFE TO USE

There is no danger with the Violet Ray. It can be applied to the most sensitive parts, and the treatment is agreeable and exhibitanting. You simply connect the machine to any convenient light socket on direct or alternating current and it is ready for any treatment. People were very skeptical about the claims that we made for Master treatments till they found that physicians not only strongly endorsed its use, but treated their patients with it with very gratifying results. You will find the Master in the office of many doctors. The Master Violet Ray in the home is good health insurance.

SELECTIVE EFFECTS OBTAINABLE

SELECTIVE EFFECTS OBTAINABLE

A. A sedative, quieting or soothing effect can be obtained and is of great benefit in all nervous ailments. This effect can be produced locally by keeping the electrode in close contact with the part to be treated. Painful sensations can be relieved, irritated nerves tranquilized and soothed. Nervous disorders are quickly and beneficially influenced by a sedative treatment.

B. A stimulating effect is produced when the electrode is lifted somewhat during the application or used through the clothing or a cloth which has been put over the part to be treated. The length of the stimulating sparks depends on thickness of the clothing or cloth placed between the electrode and the body. Uniformity in spark length is insured by the cloth.

Stimulating treatments through clothing are very beneficial in rheumatism, lumbago, partial paralysis, etc. Skin disorders, where the circulation is impaired, are often greatly benefited by a slight stimulation. A single layer of a hand-kerchief produces enough resistance in such cases. An ordinary towel is best to use in chronic rheumatism, and similar affections.



MASTER VIOLET RAYS FOR BEAUTY

If Nature has not endowed you with the charms that you desire, or if work and worry have left their lines in your face and figure, you can erase them with the Master Violet Ray. Rich, red blood is brought to the skin with the use of the Violet Ray. It nourishes the tissues and cells and brings the rahealth and beauty to the skin. All facial blemishes quickly vanish.



Treatment of Hair

Practically every disease of the scalp and hair, such as dandruff, falling hair, etc., can be traced to the improper circulation of the blood flowing through the scalp. The Violet Ray when applied to the hair has a direct action on the tiny nerve and blood vessels, stimulating them to perform their proper functions. The ozone generated acts as a germicidal agent and destroys any organism present, making dandruff impossible. A few treatments will suffice to convince you of the wonderful results accomplished. It is a proven fact that persistent use of the Violet Ray will restore grey hair to its natural color.

The use of the Violet Ray for a few minutes each day will make the hair thick, healthy and heautiful.

As a beautifying agent the Violet Ray is unexcelled, as it brings a fresh glow to the skin, producing a clear, youthful complexion. It quickly removes Pimples, Blackheads, Boils, Warts, and other Blemishes.

It removes Dandruff, Eczena, Itchy Scalp and Skin Diseases, Every woman should have this outfit in her home for use on the hair alone, aside from the other innumerable purposes to which it may be put.

As a bust developer, the Master Violet Rays will be of material assistance. A special electoride suitable for the purpose is made.

The Violet Ray Refreshes the Body. The results obtained through Violet Ray applications will be a revelation to you and in a remarkably short time will bring your body, health and appearance to that condition that Nature intended it should be.

HOW TO USE MASTER VIOLET RAYS



Three distinct methods of application are in general use according to the conditions present and the results desired.

First. Local applications. Given with specific surface or orificial applicators made for that purpose.

A beneficial warmth is induced by the action of the Violet Ray, the capillaries of the skin are stimulated. The local blood supply in the treated parts is increased during the application and for some time thereafter. Any local application with a vacuum electrode is an effective antiseptic, largely on account of the ozone developed.

Local applications produce the desired result at the treated part quickly. They also benefit to a remark-able degree the entire system. The hody is penetrated by radiant atomized electricity restoring energy and vitality to the entire system.

Second-General applications. Taken as electrification treatment for the effect on the general condition. The entire losty is saturated with electrical energy by simply holding the electrode in the hand. This produces a sedative or quieting effect.

Violet Ray High Frequency Currents have the tendency to establish a normal equilibrium of the entire nervous system. Arterial tension during a general treat-ment usually increases slightly while it falls a short time afterward, General treatments are recommended in all nervous disorders and diseases.

Third-Indirect applications. Combines local and general treatments and requires two people. The party to be treated holds the instrument with the attached electrode. A second party then may draw with either hand, finger-tips, or another electrode, the high frequency current to the desired spot of the patient's body,

WHY MASTER VIOLET RAYS EXCEL

Master Violet Ray machines have many features that make them superior to other Violet Ray machines produced. Due to their superior type of construction, which

duced. Due to their superior type of construction, which permits of the use of parts of ample size, they will operate continuously for a much longer period without overheating than any portable machine heretofore offered.

The Condensors are large and of over-capacity in order to prevent breakdowns. The Coils are all wound to over-capacity to prevent over-heating in continuous and hard usage. The insulation of the coils used is equal to that of very expensive machines. to that of very expensive machines.

The range of adjustment is ideal and suitable for all treatments.

All Cords are sparkless and there is no possible danger of shocks. The machines are instruments of marvelous simplicity and efficiency that operate on any alternating or direct current without adjustment, and are fool proof in construction.

They are economical in operation. The power consumed is less than that used by the ordinary electric light.
The Master reputation has been built by supplying

the most superior product on the market. Extreme care in the selection of material, rigid inspection, skilled craftsmanship, and years of experience make Master Violet Ray Instruments stand out in a class by themselves.

SPECIAL FEATURES FOUND ONLY IN THE MASTER VIOLET RAY INSTRUMENTS

A very important feature of all Master Violet Ray machines is the special patented Master Electrode socket terminal which is a part of the resonator coil. Should the electrode break, the coil can simply be un-screwed from the hard rubber housing and the electrode end easily removed by inserting a screw driver or knife in the insertion, as shown in illustration.

In the past, where the electrode has broken, it has been necessary for practically all users to take these to an electric shop or repair man to have the electrode end removed. This annoyance is altogether eliminated, both to the user and the dealer, by the patented Master Electrode Terminal socket which is found only on Master Violet Ray machines.





MASTER OUTFIT No. 1

Universal Generator and Surface Applicator

The Universal bas been built to supply the demand for a high-class Violet Ray machine, with features of the higher price types at a price within the reach of everyone. With the perfection of the Universal, we are now in a position to offer our customers a low priced Violet Ray instrument, which may be sold without fear of a dissatisfied buyer and with the knowledge that the best machine obtainable at its price is being placed in their customers' hands.

The Magnet Coil and Adjustments are mounted in the carrying case. The Resonator Coil is contained in a separate Hard Rubber Handle of special design. The Handle and Cords are shock proof.

MASTER VIOLET RAY OUTFIT No. 1

The outfit includes the Generator and General Electrode No. 1. The Electrode is mounted in carrying case, which is equipped with a clip holding it in place, to prevent breaking. The carrying case is lined in special light blue and the outfit is very attractive in appearance.

We are the originators of this type of two-piece construction and have made it the most popular Violet Ray machine on the market.



MASTER OUTFIT No. 2

This machine is of the one-piece type; that is, the entire outfit is contained in the handle and there is no separate Coil contained in cabinet or carrying case. For those who desire simplicity in appearance and operation, this Master One Piece type machine offers the greatest efficiency possible.

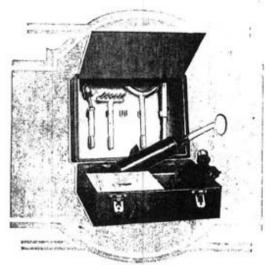
The entire mechanism is enclosed in a beautiful highly polished Hard Rubber Housing. It is light in weight and comes equipped with a handsome blue lined seal grain carrying case, with electrode clips to hold the electrodes, as shown in illustration.

MASTER VIOLET RAY OUTFIT No. 2

One-piece type with No. 1 Electrode,

MASTER VIOLET RAY OUTFIT No. 2A

One-piece type with Surface and Comb Electrode,

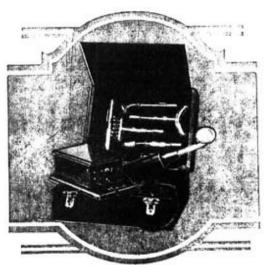


MASTER OUTFIT No. 8

This machine is designed to meet the demand for a complete Violet Ray equipment of the two piece type for home and profession, at a moderate price.

The case is designed to hold five electrodes, which are contained in a separate compartment with clips to hold the electrodes. A flap separates this compartment from the Generator.

The equipment consists of the Surface Electrode, Comb Electrode, Throat Electrode, Eye Electrode and Metal Saturator, in the illustration, a Cantery Electrode is shown in place of the Eye Electrode, choice of either is given. If neither is designated. Eye Electrode is furnished with the machine.



MASTER OUTFIT No. 4A

MASTER DE LUXE VIOLET RAYS

MASTER DE LUXE VIOLET RAYS

For home treatments and professional use, the Master DeLuxe Violet Ray offers an exceedingly attractive outfit. The
Generator is mounted in a heautifully finished mahogany cabinet with silk connecting cord. The handle of the machine is
light in weight and is in a separate Hard Rubher Housing. The
cabinet and the housing are contained in a Karatol covered
carrying case, which is lined with velvet throughout. The
carrying case has a separate compartment for electrodes which
are protected by a flap, as shown in the illustration.

MASTED ULALET DAY No. 2.

MASTER VIOLET RAY No. 3

Master DeLuxe Violet Ray Generator equipped with Comb and General Applicator and Metal Saturator.

MASTER VIOLET RAY No. 4

This outfit is similar to the No. 3 and 4A, but is equipped with special electrodes for physician's use, consisting of one Body No. 1 and five Orificials.

MASTER VIOLET RAY No. 4A

This is the machine shown in the above illustration and is similar to the No. 3, except that it has an additional electrode

equipment.

The machine comes equipped with the following electrodes:
General Electrode, Comb Electrode, External Throat Electrode,
Eye Electrode, Cautery Electrode and Metal Saturator.



MASTER VIOLET RAY INSTRUMENTS

TYPE "C" OUTFIT

TYPE "C" OUTFIT

This machine is designed for professional use, and practitioner's nilke, or heatily parlor and also for those desiring a more complete and cluberate machine for the home. The machine has a wrise range of current intensity. By regulating the contact machine has never the contact of the con

of this entire spiff, of this collection of the state of the supplied with Diagnostic light if desired, at small solditional cost



MASTER OZONE GENERATOR No. 28



MASTER ELECTRODES OR APPLICATORS

MASTER ELECTRODES OR APPLICATORS

Vacuum Glass Electrodes for High Frequency Violet Ray Application are made in two types. Pisin, or non-insulated and insulated, Insulated electrodes are used for Orificial treatments mostly, as they deliver a greater quantity of current at the desired locality.

Master electrodes are made of the best grade of special glass, which will stand heavy usage without signs of deterioration. The vacuum in Master electrodes is perfect, The end of the relectrodes are protected by metal caps, which insures greater life. All electrodes are carefully tested and packed.



No. 2 Condensor Electrode.—As the name implies it condenses the current, and produces a strong, ever four also general-ing desirable in deep seated rapes. Itself for Rheumatian, Lumhago, Neuritis, Etc.





No. 4 Throat Electrode.—Designed to tover the neck. Excellent results give been accomplished with this lectrode in folice, Tonnilitis, Double





No. 6 Spinni Electrode.—For all Spinal treatments. Arranged so that it fits over both sides of the vertebras.



No. 3 large Cataphoric Electrode.— This electrode is used for the same purpose as No. 8, but has larger ca-nucity, and greater space for cotten and infiment. Used in the treatment of Rheumatism, Lumburge. Neuritis, etc. or wherever liminent is used. Price 84.50





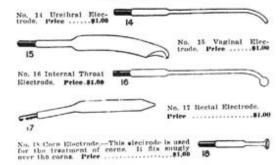


No. 12 Meiai Biectrode.—This de-livers a strong current and is ex-cellent for general tonic and where constitutional effects are desired. When held by the patient, there is no muscular contraction, merely a sense of warmth through the en-tire body. The current can also be draws to any part of the body busing the No. 1 electrode or the fin-gers of the operator. Price.....81.06

ORIFICIAL TREATMENTS

All Crificial electrodes must be lubricated before insertion. For the sake of safety there should be two people in Orificial work, the putient and the operator. The current should be turned on after inserting the electrode into the orifice and turned off before removing the electrode. Orificial treatments are never painful. The electrode should be moved alightly to avoid sticking to mucous membrane. Treatments are not to be continued longer than five minutes.

PLAIN ELECTRODES



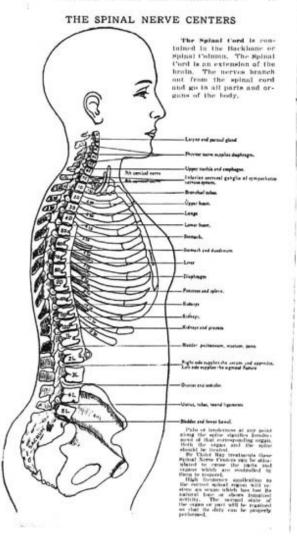
INSULATED ELECTRODICS

The advantage of insulated tubes is that the current may be introduced without less into the orifice of the body. In using plain electrode for an orifice, much of the current is lost at the first point of contact. For instaltic if the prostate gloud is being treated with the plain electrode, much of the current is drawn of at the opening of the rectum, but if the insulated tube No. 22 is used, the current is conveyed to the desired point without loss of current.



CARE OF ELECTRODES

Keep the electrodes clean. Washing with warm water and soap is sufficient. Electrodes will stand heat and ran be boiled in scate.



IN

MASTER VIOLET RAY TREATMENTS

Visited Hay treatments need not be of long duration. Short treatments at frequent intervals are very effective. Always start with the weakest current possible. The initial discharge which occurs when you bring the electrode to the body in making context should be avoided. Make contact with electrode quickly when beginning and finishing treatment. If metal object like hairpins, corner steels, chains, etc., cannot be avoided in the treatments they should be removed.

USE YOUR MASTER OUTFIT AS A FIRST AID

There is no quackery or uncertainty about the Violet-Ray High-Prequency Current. It is a thorough cell massage, and a wonderful stimulant, and while it is by no means put forward as a cure sil, yet it is of the utmost aid in restoring to normal the physical condition impaired from almost any cause. The results obtained are universally beneficial and can never in any instance too interful.

MASTER VIOLET RAY TREATMENTS

The following are suggreations for the treatment of disease taken from masse where physicians or clinics have obtained excellent results. Not all cases will be cured through High-Frequency contains the contained excellent results. Not all cases will be cured through High-Frequency contained the contained of the

cent of alcohol.

Acner Plangles—Treat the entire surface for about seven minutes with the Surface electrode No. 1. If the skin is damp, either apply alcohology and the surface to the control of the clean control of the control of

ministers. Also apply surface electrode No. 1 to spine, 5 to 10 ministers. To abort an abscess, the use of the surface electrode has been found to be the most beneficial. Keep tube in contact with skin. Apply any antiseptic lubricant on tube before applying, (five 5 to 10 minute treatments on tube before applying, (five 5 to 10 minute treatments on tube heart on tube. 12vc 10 to 15 minute treatments daily.

Adhesiens—in conditions following operation or inflammatory renditions, use the condenser tube No. 2. Apply any antiseptic lubricant on tube. 12vc 10 to 15 minute treatments daily.

Ashmas—Apply Surface electrode No. 1 or Condenser No. 2 ever the chest and thront giands for about 5 minutes with a sver the chest and thront giands for about 5 minutes with a frame of Oil of Pine; 1 dram of Oil a fathern is also found to be very successful by. Treatment of Asthma is also found to be very successful by. Treatment of Oil of Pine; 1 dram of Oil a fathern of Oil of Pine; 1 dram of Oil a fathern of Oil of Pine; 1 dram of Oil a fathern of Oil of Pine; 1 dram of Oil a fathern of Oil of Pine; 2 dram of Oil a fathern of Oil of Pine; 2 dram of Oil of Pine; 3 dram of Oil a fathern of Oil of Pine; 4 dram of Oil of Pine; 4 dram of Oil of Pine; 5 dram of Oil of Pine; 6 dram of Oil of

Holla-Purunculesis— In treatment of Boils, excel-ient results have been ob-tained by giving a light spark around area of in-fection with the surface electrode No. 1 and then applying the electrode di-rect on same twice daily. 5-minute treatments.

Bruless — Use Surface electrods over area affect-ed. Treatments about five to ten minutes. Medium or strong current.

Busions — Use Surface electrode in direct contact with skin, with medium current for about five min-utes.

Burns — Apply electrode in close contact with the burned area, using a mild current for a short time, the current part of the current for the current for the current for the current in direct of head and neck with strong current in direct contact with the skin. Treat the spine and hold the electrode in the hand. Ozone inhalations for about four minutes are also of importance.



Palas in Back Quickly Relieved

Blackheads—A mild to medium treatment of five minutes daily. Use Surface electrode No. 1, and suply talcum powder before treating.

treating.

Brenchitls—By the use of the Ozone attachment, very beneficial results and great relief can be obtained immediately. Use same mixture as in treatment of Asihma.

Carbunele—Use the surface electrode No. 1. applying same direct, 10 to 15 minutes daily.

Cnternet—Great relief can be obtained in the early stage of calaract by the use of the eye electrode either single or double, with a very fine current, not exceeding 'k-inch in length.

Callouses—Use a strong electric current with Surface electrode No. 1. The current can also be applied by holding electrode a short distance from the skin.

Cancer—Surface cancers not too far developed can be trea with Cautery electrode No. 25. Anesthetics may be required. 8 gery is usually necessary.

Carbunctes-See Bolls,

Catarrh-Nasal-In this condition the masal tube is used within the nose with a mild current within the masal passages, 2 to 3 minutes on each side, followed by an application with the surface electrode externally over the area of the nose. the ozone gen-erator.

Catarrh of Wemb-Use Vaginal electrode No. 24 or No. 26 for five minutes daily. Electrode to be jubricated before insertion.

Chilbinias—Has Surface electrode with strong spark applied directly to the skin. Treatment to last about ion minutes.

Cold in Hend-See Nasal Calarrh,

Cold in Lungs-See Asthma.

Cold Extremities—Apply Surface electrode direct to affected parts, using a strong spark for about five minutes. Also apply electrode to the spine; keep the electrode about one-half inch from the skin until the surface is red.



Perfectly Harmless. Can Br Used For Baby

Constitution—Apply Surface electrode over the bowels. Apply for about ten minutes moving the electrode. Use a strong current, Physicians use Rectal electrode No. 22 for insertion into the Rectum. Crifficial treatments last about five minutes.

Cervicitis—The use of the vaginal electrode No. 24 is very effective, giving 1s minutes daily. Use any antispitic lubricant on same hefore inserting.

Coryan—Use the surface electrode No. I, rubbing same over forehead and sides of face 15 minutes daily.

Cysilis—With the use of the rectal No. 23 and urethral No. 21 tubes, remarkable results have been obtained. Give 5 minutes daily, using any suitseptle jubricant on the electrodes.

Dandruff-See Alopecia.

Denfuess, Enruche and Ear Diseases—Apply for electrode with very mild current late the ear. Care must be exercised so as to not touch the ear draw. Three to five minutes is sufficient.

Hisbeirs—Apply Surface electrode over the abdomes and spine through a thin towel or cloth for ten minutes, likel must be abserved. Complete results must not be expected before several months.

Diphtheria Apply Surface electrode to outside of throat and soine. Insulated Throat electrode, inside. Treatment not over ten minutes, repeated at short intervals. Onone inhalations are also of great advantage.

Dyspepsis. Use electrode No. 1 or No. 2 over the stomach and solar plexus with a strong current for about ten minutes.

Resema: By the use of the surface electrode No. 1, excellent results have been obtained by giving the patient as much current as can be endured. Another hendful way of treating is to apply source over the area and go over same with the electrode.

Enteritis -in acute cases of Knieritis not as beneficial results may be expected as in chronic cases, but some can be freated by siving tonic applications with the surface electrode. No. 1 over the area of the abdomen. Is minute treatments daily. In chronic rases, excellent results can be obtained by giving treatment twice daily with the condenser electrode.

Epididymitis—Great relief is given immediately by the use of the surface electrode No. 1 in the area involved, tilve 15 minutes dulty.

Ernsions of the Cervix Pieri-Excellent results have been abtained by the use of the vaginal electrode No. 21. Itring tuke in contact with the Cervix, glylog to minutes daily, using any antiseptic lubricant on the tuke.

Preckles Cover surface with gauge and treat daily with a medium current of from five to ten minutes' duration. Results are quite and to be very slow and patience is required.

Prost Bites - See Chif-

Pleasure—Anni—Remarkable results, and in many cases complete recovery, can be expected by the usof the rectat electrode Na. 22 tube. Apply an anticulate before inserting, giving 10 minutes daily,

Geitre—In Goitre cases, by the use of the surface electrode No. 1, the tube should be kept in light contact with the surface of the skin, treating the sides of the neck as well as over the Goitre itself, giving 19-minute treatments daily.

Generates—In sub-accuror chronic forms, marked henoficial results have been obtained by the use of the urethral No. 21 or vaginal No. 24 electrodes. Apply any antiseptic lubricant on any antiseptic lubricant of T-minute treatments delly.



Pine for Scalp and Hair Treatment

Gleet-By the use of the wrethrni No. 21 and the rectal No. 21 tabes, unusual results have been obtained. Insert same with any antispatic unbrient, giving 16 to 15 minute treatments daily.

Grippe—Breathing through Ozone Generator gives immediate relief. Follow with treatments over side of mose, and in some cases with Naisal electrode No. 19 internally. Treatment five to ten minutes.

Gest—Apply Surface electrode to the spine to slimulate the System. Then apply Surface electrode to the pointful area with a medium current, Keeping the electrode in contact with the skin but moving same about. I win may be soliced at first but results are certain if treatment is continued.

Gray Hair—The natural color of the hair may often he restored by continued and mattest treatments with electrode No. 2. See Alopecia. Several months are usually required for results, the a current for stimulation at least once a day. Read Sherhardt's Manual.

Hay Fever-Apply Surface electrode over the nose and along spine with medium current for five minutes. Apply electrode No. 19 in nostrils for a short time. Treatment must be of short duration but frequently repeated, the the times timerator freely, it being advisable to disconte the entire room with 1. For sutsfactory results freatments about commence two or three weeks before period of attack.

Headaches—Prontal and Occipital headaches are reflexed by using the surface tube No. I over the sent of pain. Keep the tube in loose contact and prolong the treatment until relief takes place, which usually takes from 5 to 10 minutes.

Hemorrholds -With the use of the rectal tube No. 21, temporary relief may be obtained by giving 5-minute treatments daily.

Herpen-Zoster Application of the condenser tube in the cruption of Herpen, Recovery can be hastened by giving 18-minute treatment daily. I be I treatments are usually sufficient.

Importance—The most beneficial way of treating this condition is by the use of the prostatic tube No. 22 with plenty of spark. Use the surface electrode No. 1 slightly raised over the area of the spine from 5 to 7 minutes daily. Direct application with special electrode is also of great importance. This electrode can be used for 5 to 10 minutes. Treatments once or twice daily.



Incontinence of Urine—Apply the surface electrode No. 1 fover the area of the spine, raising same slightly; also apply electrode around the area of the Bladder, 5 minutes daily.

Influenza — Treat the spine and solar plexus with the No. 1 electrode. Also over the eyes and the sides of the nose. Treatments to the spine are made through a towel for five minutes. Also use Osone Generator.

Insernia — The method most beneficial has been the use of the condenser tube which is kept in light contact with the back of the head and the neck, going down the spine for about 5 minutes daily before retiring.

intra-Ocular Hemurrhages—The eye electrode No. 5 in contact with the closed lids using a very light current for about 5 minntra, has produced favorable results in many cases.

fritts-Treat as outlined above. Good results have been obtained in Syphilitic-Iritis.

Jaundire-Hy the use of the condenser electrode, great relief can be obtained. Apply electrode over the area of the liver. In minutes daily.

Laryagitis. The thront electrode either by the loose contact maid spark will greatly aid in treatment of this nature. Ozone inhalations are most advisable.

tumbage-Apply the current through the clothing with as strong a current as can be tolerated. Confinue treatment until pain is gone. Keep the electrode moving and give long treatment.

Leucorrhen—Use Vaginal electrodes No. 24 or 25, lubricating before insertion. A medium treatment for five minutes is applied and repeated as electromatances repuirs. Current should be turned on after insertion of electrode and off before removal of electrode. Antiseptite douches in connection.

Meterrhen-Treat the same as Amenorrhea.

Neuralgia-To obtain a hurried relief of neuralgia, the surface electrode No. I should be used. Pass back and forth in light contact with the skin, giving 10-minute treatment as needed.

Neuritia-l'ae Surface electrode for five minutes at a time. Several treatments a day are advisable. Use light current at first, and gradually increase same. Apply locally or to entire body, depending upon the condition,

Obraity-Apply Surface or Condenser electrode No. 2 for fifteen minutes twice daily. Use very strong current. Fats will be remained by increase of oxidation but diet must be reduced and whiched.

Orchitis-Relief can be immediately obtained with the surface electrode No. 1 over the area of the testicles, giving 5-minute treatments.

Paretitis—The condensor electrode, using a medium intensity our ent over the diseased area, giving 5 to 10-minute treatments duly, is very benedical.

Pharyugitis-In acute forms with the use of the throat elecirode, quick relief can be obtained. Give 5-minute treatments daily.

Pieurisy—Using the condenser tube over the front and back of the chest until a marked reddening of the skin indicates a counter irritation. Two or three treatments are necessary in acute cases and one daily in chronic cases.

Peorfasis. This is treated by the same technique as that employed in ecsema.

Piles-See Hemorrholds,

Rheumatism.—The condenser tube is of exceptional value in chronic and muscular rheumatism. Apply the electrode over the area 10 to 15 minutes daily.

Ringworm-Use the Surface electrode and apply short sparks several times a day with a medium current for several minutes.

Sears—By the use of the surface electrode No. 1 a softening effect can be produced on soft tissue, treating same 5 to 7 minutes daily.

Scinties—Apply the condenser electrode along the course of the nerve and over the lower part of the spine, giving 10-minute treatments daily.

Simultis—The use of the surface electrode No. 1 gives a hurrled relief by applying same over the area of the Sinuses daily for minutes.

No. 20 with medium current for five minutes, and the External Throat electrode No. 20 with medium current for five minutes, and the External Throat electrode No. 4 on the outside of the throat for the same period of time.

Stiff Neck and Joints-Apply Surface electrode, using the same method as explained in Neuritis.

Tonsilitis-Use treatment as above for Sore Throat, Ozone treatments are also of importance,

Tuberculosis—In the incipient type of tuberculosis, exceedingly good results can be obtained and tubercul bacilil eliminated by the use of the Ozone attachment, filling same with one-half dram of oil of eucalyptol, and one dram of oil of pine, ten minime of beechwood oresoote, using the same morning and night. With the use of the general electrode over the area of the chest, this will also be found beneficial using same 10 minutes daily.

Urficeria-Mives-Urficeria can be quickly eliminated by the use of the surface electrode No. 1, going back and forth over the area for 10 minutes daily until condition is gone.

Waris and Other Small Growths—The Fulguration electrode should be used, as it throws a fine sharp spark. Apply to growths long enough to cauterise the surface. A few seconds is usually all that is necessary. Wall a day or two for results and, if necessary, repeat, Where there is no Fulguration electrode the surface electrode can be used by holding it about one-eighth inch from the growth and allowing the sparks to pass from the edge of the gines.

Writer's Cramp-In this condition a hurried relief can be effected by the use of the surface tube No. I over the area of condition, using same until condition is relieved,

Wry Neck-Torticollis-Using the No. 1 or No. 2 over the area of the neck and down the spine daily for 10 minutes, relief can be effected.

DIRECTIONS FOR OPERATING The Master Violet Ray

- 1. Insert glass applicator into the instrument.
- 2. Attach the connecting plug to the lamp socket,
- Turn the current on.
- Adjustment of the Violet Ray discharge is obtained by the ad-justing knob. To the right the discharge increases, to the left it decreases.
- Start any treatment with a mild discharge and increase it gradually to the required strength.
- Take good care of the connecting cord, Keep it dry and free from knots and twists. Have it repaired in time if signs of wear appear.

DON'TS

- Do not altempt to repair the apparatus. If the necessity arises, write to the Factory advising of your difficulties and you will be informed what to do.
- he not use the Moster in connection with any tonic or med-icant containing a large percentage of alcohol on the hair or any part of the body.

2. He careful with the apparatus and when not in use turn the current off. He on the safe side and remove the connect-ing plug from the lamp socket after use. Netter immuges arising from carelessness are not covered by our surrantee. If instructions are properly followed, the Master will-last indefinitely.

Unless otherwise specified all machines will be furnished to operate on standard voltage of 110 to 126 volts. Machines can olso be forulshed to operate on 226 volts and 32 volts. No extra charge for special voltage.

GET YOUR MASTER VIOLET RAY NOW

The Master Violet Ray is the most practical, serviceable instru-ment you can secure. They are designed to meet the require-ments for a high grade Violet Ray for the home as well as the profession.

its simplicity of operation, wide range of adjustment, durability, leasily and unique construction make it the ideal general pursues of various visits. We challenge anyone to offer a better Violet Itay. We challenge anyone to offer a better Violet Itay and unique report of the control of the violet Itay instruments are equipped with perfectly inhunered coils which increast their overheating, a feature that should not be overlooked when purchasing any Violet Itay. Herease of this feature, our instruments may be used constantly for long periods without fear of overheating. Every point of construction, every piece of material used, is alven exercise that will not be according to the construction, every piece of material used, is alven exercise that will not be such as the process of the price is most reasonable, within everybody's reach.

These and the fact that thousands of others are deriving com-plete satisfaction from the use of their instruments, are the rea-only, and the second of the Master Violet Ray only.

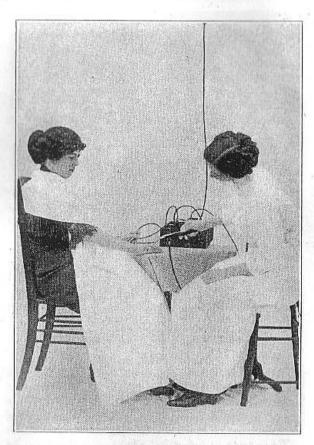
only.

The wonderful Master Violet Ray treatments are now within the reach of every man, woman and child in the world. The remarkable curative and health promoting properties of Violetians are available in every home at a cost so low that nobody can afford to be without a Master instrument. The machine will last for years and pay for itself over and over again.

GUARANTEE

The Master Violet Ray instrument is guaranteed against mechanical and electrical defects for a period of one year from date of purchase by the user, providing that all instructions for the proper use and operation have been followed. Defective parts will be replaced free of charge when needed, providing the apparatus is returned to the factory prepaid. Glass applicators are not guaranteed for any specified period of time; they are made of the very best material obtainable and thoroughly tested before shipping.

> The Master Electric Company, Inc. Chicago, U. S. A.



Application of the Fulguration Point Electrode for the Removal of Moles

Authorities recommend attaching a metal handle and cord to post "A" and connecting fulguration point to post "D" with a gap of one-eighth to one-fourth inch between "A" and "B," approaching patient carefully with circuit breaker open, revolving the point in a circle about one-eighth inch from mole and close circuit breaker, thus cauterizing the growth with the result that it withers up and is absorbed by the tissues, one or two treatments being usually sufficient. Most aseptic precautions should be taken washing off beforehand with an antiseptic solution and applying some healing ointment afterwards.

The Violet Ray

The Latest Development in BEAUTY CULTURE



Treatment of Acne Vulgaris (Pimples) with the Violet Ray

Look for INTOSH The trade mark the name INTOSH of Quality

Manufactured by
McIntosh Battery and Optical Co.
322 W. Washington St. CHICAGO. ILLINOIS

How to Build Up Trade

BEAUTY specialists nowadays are coming to realize that the only

way to build, up new trade, as well as retain a hold on older patrons, is to give them something which they cannot get elsewhere. Any woman can buy herself a jar of any of the well advertised cremes now offered and massage her face at home.

Electricity a Great Aid When it comes to electrical treatment, however, that is a different proposition,

as it requires an experienced operator to make a satisfactory application; but the small electric massage batteries and massage vibrators are all about the same in operation so that the operator cannot assert her individuality in making the application, hence the patron feels that one operator gives about the same treatment as another and that there is no special reason for patronizing any particular shop, with the result that her patronage is not very constant.

Use Something Exclusive in Your Work Shrewd beauty specialists are, therefore, realizing that the sure way to build up a select and

profitable clientele is to install an electrical apparatus of a kind which is not found in every shop, and which will cause their patrons not only to come regularly for their own treatments, but to give them some much needed advertising by heralding abroad the fact that So and So's shop has the very latest

apparatus and gives a treatment which is out of the ordinary.

An Apparatus That is "Different"

The McIntosh Violet Ray Machine is a new departure in electrical apparatus for beauty

specialists, as it differs greatly from any apparatus heretofore employed. Hundreds of operators have added to their income and are now on the highroad to success as a result of making use of this very beneficial form of electricity in their work.

A Simple Machine to Operate

This machine is one of thelatest and most scientific developments in electrical treatment, while at the same

time it is so simple of construction that any operator having previous experience with electrical massage batteries and understanding the general method of their usage can operate this machine by reading the printed directions.

How it is Constructed

This apparatus is arranged to be connected with any ordinary electric light sock-

et furnishing direct or alternating current of 110 volts, and consists of a number of coils of wire which have the effect of changing the character of the electrical current, giving it the peculiar property of being able to spark through the air.

Makes a Beautiful Display in Use

WHEN the glass electrode connected with the machine is brought near

the hand a number of tiny violet-colored sparks are given off, but when the electrode is pressed directly upon the part to be treated a beautiful violet glow takes place within the glass bulb, while little sensation other than that of heat is experienced.

A Most Beneficial Treatment, and Pleasant to Take

The application of this current is remarkably pleasant and patrons who have

enjoyed one treatment are loud in its praise. The use of this current has a highly stimulating effect, as it increases the circulation of the blood, consequently improving the blood supply of the part under treatment. The current also has great germicidal properties, as it gives off ozone, which inhibits the growth of skin and scalp parasites. Many stubborn cases of acne, eczema and facial and scalp diseases of germ origin have responded in a most gratifying manner to this form of treatment.

Very Novel in Its Effects

When the machine is first seen in use it is apt to be a trifle disconcerting

to the novice as she observes the weird blue sparks and hears the snap and crackle of the electrical discharge, but when one realizes how perfectly harmless the current is, confidence is at once established. One peculiarity of this form of current is that it is unnecessary to have two connections to the patient, as the patient standing upon the floor or scated in a chair resting upon the floor forms the return circuit with the earth, so that it is unnecessary to make two connections to the patient, excepting in some special treatments.

An Effective Germ Eradicator

For facial and scalp work the glass electrode is attached to ed to the part to be

the machine and applied to the part to be treated, and for certain conditions due to germ origin this current is unexcelled.

Moles and Warts Quickly Banished

Moles and warts are also successfully removed, although

superfluous hair cannot be removed with this machine. For the treatment of moles and warts the fulguration point electrode is attached to the machine and a tiny spark is drawn from the patient, encircling with this spark the growth to be eradicated, thus cauterizing the growth, so to speak, and cutting off its blood supply, with the frequent result that moles or warts are removed in one or two sittings.

Rapid Results Obtained

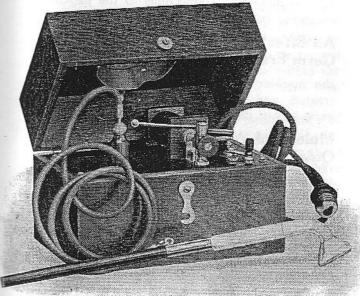
The special advantage possessed by the Violet Ray Machine is the fact that one can accomplish more rapid results than with the current obtained from ordinary batteries or wall plates.

An Indispensable Apparatus

The operators who are using this machine are finding it

to be the most valuable appliance employed in connection with their work and would not do without it.

McIntosh Violet Ray Machine



PRICE, complete, including facial and scalp electrode with handle, cataphoresis electrode, fulguration electrode with three points, metal handle and two conducting cords\$30.00

Produces
Violet Rays

This apparatus, when connected with any electric light socket by means of the plug and cord furnished, produces a beautiful violet colored discharge between the secondary terminal and the grounded terminal, hence its name, the Violet Ray Machine.

McIntosh Violet Ray Machine

High-Class
Construction

T is constructed of the very highest quality of materials according to the latest standards of electrical engineering, and is guaranteed for one year from date of sale; while with proper use it will give a much longer period of service. All metal parts are finely nickel-plated, and all insulation used is of the best. The apparatus is encased in a highly polished, quarter sawed, golden oak case measuring 9 x 6 x 7½ inches.

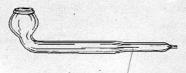
Other Makes parts are mounted is of a special insulating material which we have found to withstand this form of current much more effectively than the slate bases used by other makers, which have a tendency to short circuit the wiring—several such faulty machines having, to our knowledge, broken down in use. The purchaser of our machine is insured of securing an apparatus which will stand up to the hardest work and which is always ready to give results.

Electrodes



No. 54, Facial and Scalp Electrode only, without handle.....\$0.75

No. 54, Facial and Scalp Electrode attached to handle, complete......\$1.50

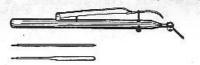


No. 81, Cataphoresis Electrode......\$1.50

This electrode is used for the application of oils, having a little recess or cup which holds same. It can be fitted to the same handle as is illustrated above.

After the glass vacuum electrodes have been in use for several months the color of the light will change gradually until it is a greenish color, after which they should be discarded and new ones obtained. It is well to have a duplicate set of the glass electrodes on hand to avoid delays.

Electrodes



No. 154, Fulguration Electrode, complete with three points......\$3.00

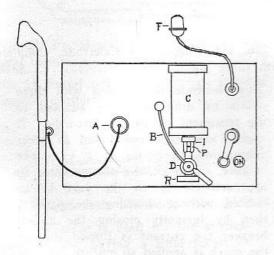
This electrode is provided with three points of different shape adapted to the treatment of various growths. A special advantage not found in other fulguration electrodes is a circuit breaker, which enables the operator to approach closely to the part to be treated without shocking the patient; then by instantly closing the circuit breaker the current is turned on and the spark is applied so quickly that the patient hardly feels it. Other fulguration electrodes not having this device are rather unpleasant of application.



No. 40, Metal Handle, each......\$0.15

This handle is only used in connection with the fulguration electrode and with all other treatments it is unnecessary.

Directions for Use of McIntosh Violet Ray Machine



A, Secondary Terminal. B, Indifferent or Grounded Terminal. C, Interrupter Coil. D, Spark Gap Post. F, Attachment Plug. I, Vibrator Spring. P, Spark Gap. R, Vibrator Screw.

How to Connect This coil operates on either 110 volt direct or alternating current, and should be used on a wooden table. Screw the attachment plug "F" into any lamp socket and turn on the small switch at the right of coil. The Vibrator "I" should make a humming sound. The number of vibrations is regulated by the screw "R."

Directions for Use of McIntosh Violet Ray Machine

Adjustment of Vibrator Spring should not touch the head of Interrupter Coil but should be separated by a space of about a sixteenth of an inch. The Vibrator Screw should just delicately touch the Vibrator Spring.

How to Apply

Post "A," the Secondary Terminal, is ordinarily referred to by some writers as the Positive Pole. For facial and scalp treatment the applicator is attached to post "A." Before applying the electrode to patient the Indifferent Terminal "B" should be turned so as to touch "A," after which electrode should be placed on patient and the Indifferent Terminal "B" should be opened gradually until the desired strength of current is obtained.

Use of
Fulguration
Electrode

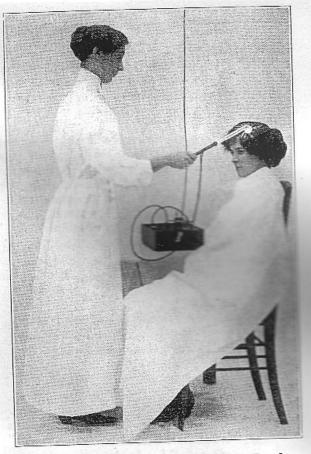
When using the fulguration electrode, however, the metal handle and cord are attached to post "A," while the fulguration electrode is attached to the socket in post "D," which is referred to by some writers as the Negative Pole.

Acne Vulgaris WELL known authorities recommend for this application applying the facial and scalp electrode attached to post "A," (as shown in the illustration on cover) holding it in light contact with the skin, moving it about gently, with a gap of about one-half to three-fourths of an inch between "A" and "B." The tube is not allowed to remain stationary over any point. Treatments are given three to six times a week for periods of seven to twelve minutes.

Excellent results are being Alopecia (Loss of Hair), had in the treatment of many cases of baldness with this form of electricity, the application being made with the scalp electrode in somewhat the same manner as in the cut shown on page thirteen. A spark gap of from one-fourth to three-fourths of an inch is employed between "A" and "B," while the electrode may be held in light contact with the scalp or removed slightly, causing a short, intense spark, which is highly stimulating. Care should be exercised not to give too severe a treatment and not to prolong the treatment too greatly. Before making the application the scalp should be cleansed thoroughly, avoiding the use of alcohol or any tonic containing alcohol, as the sparks would have a tendency to ignite such substances.

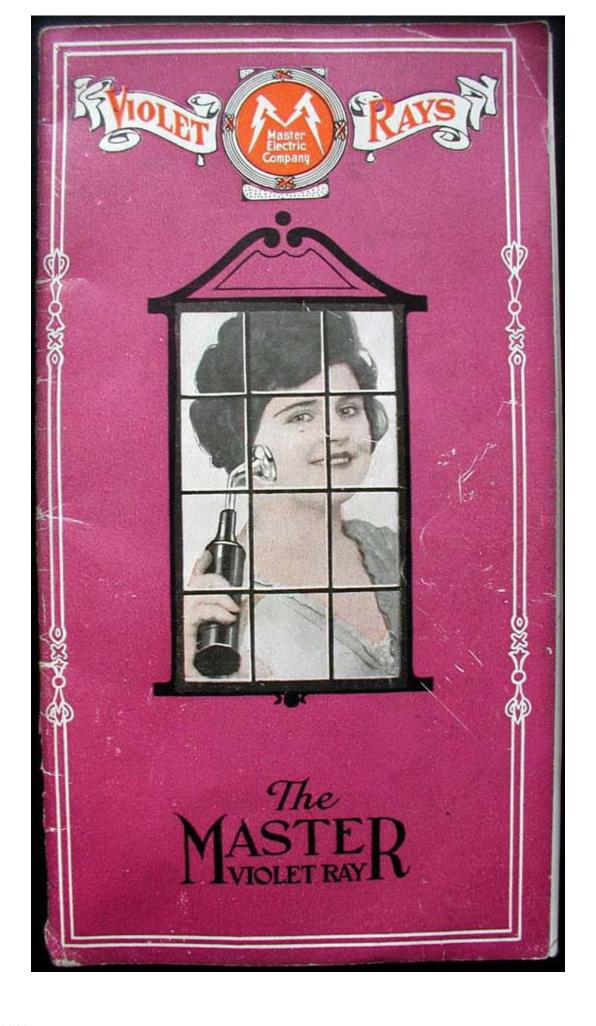
Chloasma See moles, moth patches, etc.

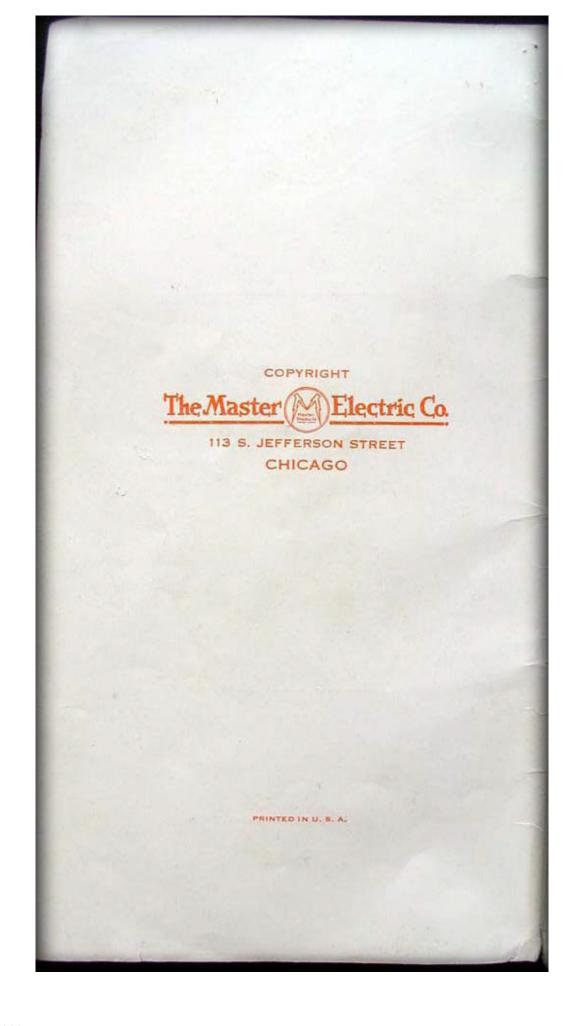
Falling Hair This form of treatment is very effective for falling hair, the application being made in the same manner as for other scalp affections. Treatments with an electric vibrator prove very effective given alternately with this form of application.



Treatment of Eczema of the Scalp with the Violet Ray Machine

For this treatment authorities recommend that the scalp electrode be attached to post "A" and after the scalp has been thoroughly cleansed, using no tonic or other liquid containing alcohol, the electrode should be applied and moved about gently for about five minutes. The spark gap should be adjusted so that there is a distance of about one-fourth to three-fourths of an inch between "A" and "B," and the electrode may be held in light contact with the scalp or applied through a thin layer of gauze. The success of the treatment depends upon the regularity of attendance of the patient and the frequency of the application, one treatment each day being more efficacious than only one or two a week.





INTRODUCTION

THIS book is written with the purpose of introducing the Master Violet Rays and explaining its superior merits in the treatment of physical disorders to those who have not already experienced its wonderfully beneficial effects.

To the thousands of users of Master Violet Ray Instruments, we need no introduction. The machines speak for themselves and the numerous commendations we have received testifying to the complete satisfaction given by these instruments, are sufficient proof that our unqualified guarantee is well founded. These users of Master Instruments know that for service, reliability and general satisfaction they can find no machine the equal of the Master.

To our new friends and potential customers we want to say, that for years we have endeavored to produce the best Violet Ray instrument possible at anywhere near the price. That we have succeeded in this is attested to by the many satisfied users who would have no other than a Master Violet Ray. We have maintained a policy of using first-class materials with high grade workmanship only, and by constant experiment and tests have produced a Violet Ray for home and general use that is without equal.

Every machine leaving our factory is thoroughly tested and inspected and is accompanied by our absolute guarantee. Any dissatisfaction will be immediately adjusted.

MASTER ELECTRIC CO.

VIOLET RAYS

The Violet Ray is a pleasant, effective means of applying the wonderful power of electricity to the human body without pain, sensation or shock, and is without an equal in relieving pain and congestion, stimulating the circulation and restoring good health, vigor and youth.

The Violet Ray is the ordinary electric current obtained from any socket, nebulized and split up into infinite parts and produced through glass applicators called electrodes, in a violet colored stream, hence its name, VIOLET RAY. A huge voltage of electricity is obtained and applied to the body or hair but without any shock, whatever, the only sensation being a pleasant warmth.

Violet Ray Treatments surely relieve pain in any part of the body. The electrical currents penetrate every cell and tissue of the body, and tranquilize and soothe. Violet Rays stimulate and strengthen the vital organs, build up the natural forces, steady the nerves, and develop the general health and conditions of the body. High frequency electrical currents carry oxygen to the blood, thus purifying this vital body fluid. Violet Rays equalize the circulation in congested parts and restore bruised and inflamed tissues to normal.

A Master Violet Ray is applied through vacuum applicators or electrodes made of annealed glass. These electrodes diffuse the electrical current in sprays of a beautiful deep violet color. These sprays or sparks vibrate to and fro, or oscillate at the rate of several hundred thousand times per second. This rapid vibration is what produces the pleasing, invigorating and corrective effects derived from Violet Ray Treatments.

A few minutes' application each day, simply holding the applicator in the hand, furnishes a tonic to the system which does much to fight disease and keep the body in a healthy state. In-asmuch as prevention is to be desired a thousandfold rather than a cure, this one point alone makes the Master Violet Ray in-dispensable in your home.

Many authorities state that impaired circulation of the blood causes most ailments. The Violet Ray by stimulating the circulation, thus wards off disease, saving you much unhappiness and suffering.

With the knowledge that electricity, Nature's greatest health agent, was a vital factor in the treatment of various diseases of the body, there has been a constant untiring effort to improve the method of application and increase the power of this wonderful agent.

The wide use of electricity produced through various types of apparatus finally led to the discovery of the Violet Ray, otherwise known as High Frequenty, which has solved many problems and today furnishes the most efficient and powerful phase of electricity known for the relief and destruction of the various diseases and germs of the body.



The Violet Ray offers a pleasant, effective means of destroying germs and banishing various diseases while building up the tissues and toning up the system generally. The Violet Ray while introducing all the power of electrical energy into the body, does so without the slightest pain, shock or contraction of muscles. In fact the application of the Violet Ray produces a pleasing sensation. The amazing results secured through Violet Ray treatment, immediately caused it to be accepted by the professions, and to-

day you can hardly find any physician's office not equipped with Violet Ray Apparatus.

Now this remarkable factor is made available to you for use in your own home, at a price within the reach of anyone. We have built an effective Violet Ray instrument that is the essence of simplicity, made so a child may operate it, and at the same time we have an instrument that produces the Violet Ray unexcelled by machines costing many times as much without the unique and practical features of our instruments.

WHAT VIOLET RAYS DO

Violet Rays or High Frequency Currents benefit all living matter. Through the glass vacuum applicator light, heat, electric energy and ozone are created. These forces are uniformly potent in relieving and eliminating human ailments. Violet Rays present a remedy upon which we can rely. They are positive and certain in action. They will reach where medicine does not and often cannot reach—yet they cause no pain, no disagreeable sensation, no discomfort. They furnish a soothing relief. They destroy germs and have a strong power over infection.

The uses for the Master Violet Ray are practically unlimited. Not only are ordinary pains and aches removed, but deep scated ailments of long standing are often entirely eliminated.

VIOLET RAYS SAFE TO USE

There is no danger with the Violet Ray. It can be applied to the most sensitive parts, and the treatment is agreeable and exhilarating. You simply connect the machine to any con-

venient light socket on direct or alternating current and it is ready for any treatment. People were very skeptical about the claims that we made for Master treatments till they found that physicians not only strongly endorsed its use, but treated their patients with it with very gratifying results. You will find the Master in the office of many doctors. The Master Violet Ray in the home is good health insurance.



SELECTIVE EFFECTS OBTAINABLE



A. A sedative, quieting or soothing effect can be obtained and is of great benefit in all nervous ailments. This effect can be produced locally by keeping the electrode in close contact with the part to be treated. Painful sensations can be relieved, irritated nerves tranquilized and soothed. Nervous disorders are quickly and beneficially influenced by a sedative treatment.

B. A stimulating effect is produced when the electrode is lifted somewhat during the application or

used through the clothing or a cloth which has been put over the part to be treated. The length of the stimulating sparks depends on thickness of the clothing or cloth placed between the electrode and the body. Uniformity in spark length is insured by the cloth,

Stimulating treatments through clothing are very beneficial in rheumatism, lumbago, partial paralysis, etc. Skin disorders, where the circulation is impaired, are often greatly benefited by a slight stimulation. A single layer of a handkerchief produces enough resistance in such cases. An ordinary towel is best to use in chronic rheumatism and similar affections,

MASTER VIOLET RAYS FOR BEAUTY

If Nature has not endowed you with the charms that you desire, or if work and worry have left their lines in your face and figure, you can erase them with the Master Violet Ray. Rich, red blood is brought to the skin with the use of the Violet Ray. It nourishes the tissues and cells and brings the radiant hue of health and beauty to the skin. All facial blemishes quickly vanish.

All modern beauty specialists use the Violet Ray in the treatment of the hair and skin.

Treatment of Hair

Practically every disease of the scalp and hair, such as dandruff, falling hair, etc., can be traced to the improper circulation of the blood flowing through the scalp. The Violet Ray when applied to the hair has a direct action on the tiny nerve and

blood vessels, stimluating them to perform their proper functions. The ozone generated acts as a germicidal agent and destroys any organism present, making dandruff impossible. A few treatments will suffice to convince you of the wonderful results accomplished. It is a proven fact that persistent use of the Violet Ray will restore grey hair to its natural color.

The use of the Violet Ray for a few minutes each day will make the hair thick, healthy and beautiful



As a beautifying agent the Violet Ray is unexcelled, as it brings a fresh glow to the skin, producing a clear, youthful complexion. It quickly removes Pimples, Blackheads, Boils, Warts, and other Blemishes.

It removes Dandruff, Eczema, Itehy Scalp and Skin Diseases. Every woman should have this outfit in her home for use on the hair alone, aside from the other innumerable purposes to which it may be put.

As a bust developer, the Master Violet Rays will be of material assistance. A special electrode suitable for the purpose is made.



The Violet Ray Refreshes the Body. The results obtained through Violet Ray applications will be a revelation to you and in a remarkably short time will bring your body, health and appearance to that condition that Nature intended it should be.

CELLULAR MASSAGE

When the electrode is brought near the body the flow of Violet Ray is apparent in one direction only. That is from the applicator to the body. Actually, however, the direction of the flow alternates from the applicator to the body and then from the body to the applicator thousands of times per second. This causes the cells of the body to vibrate accordingly, which gives the effects of a massage, and tends to revive and invigorate the bodily tissues by rebuilding each individual cell of which it is composed. This is one of the most beneficial results of the Violet Ray.

HOW TO USE MASTER VIOLET RAYS

Three distinct methods of application are in general use according to the conditions present and the results desired.

First. Local applications. Given with specific surface of orificial applicators made for that purpose.

A beneficial warmth is induced by the action of the Violet Ray, the capillaries of the skin are stimulated. The local blood supply in the treated parts is increased during the application and for some time thereafter. Any local application with a vacuum electrode is an effective antiseptic, largely on account of the ozone developed.

Local applications produce the desired result at the treated part quickly. They also benefit to a remarkable degree the entire system. The body is penetrated by radiant atomized electricity, restoring energy and vitality to the entire system.

Second — General applications. Taken as electrification treatment for the effect on the general condition. The entire body is saturated with electrical energy by simply holding the electrode in



the hand. This produces a seditive or quieting effect.

Violet Ray High Frequency Currents have the tendency to establish a normal equilibrium of the entire nervous system. Arterial tension during a general treatment usually increases slightly while it falls a short time afterward. General treatments are recommended in all nervous disorders and diseases.

Third—Indirect applications. Combines local and general treatments and requires two people. The party to be treated holds the instrument with the attached electrode. A second party then may draw with either hand, finger-tips, or another electrode, the high frequency current to the desired spot of the patient's body.

LOCAL TREATMENTS

One of the greatest benefit of the Violet Ray, is the fact that it can be used with such excellent results in local conditions. When the Master Violet Ray is applied to any part of the body, it gives to a certain extent a general treatment by stimulating the circulation. In treating local conditions, these results are greatly increased by giving a local treatment to the part affected. Suppose one is afflicted with rheumatic pain in the shoulder, you apply the Violet Ray treatment to the painful part. The result noted, will be an immediate sensation of warmth. After a slight treatment, you will note, that the part treated, has become slightly reddened by the blood that is sent in response to stimulation secured from the treatment.

These local treatments can be given to any part of the body locally with very good results.

NEURITIS

Neuritis, as commonly understood, is rheumatism of the nerves. In the treatment of this condition, the Violet Ray is unexcelled. Not only does the Violet Ray apply health but a permanent relief is secured by relieving the inflammation and removing the cause of the ailment.

RHEUMATISM-LUMBAGO

By causing the rich red health-laden blood to flow to the affected part and concentrated oxygen driven directly into the tissues, the inflammation is usually quickly overcome and a normal condition is secured.

OZONE TREATMENTS

The Master Ozone Generator shown on Page 19 may be used with any Master machine. This generator in connection with our outfits give the most satisfactory method of Ozone treatment known to science.

A most essential form of treatment for asthma, hay fever, and all lung, throat and nose cases,

WHY MASTER VIOLET RAYS EXCEL

Master Violet Ray machines have many features that make them superior to other Violet Ray machines produced. Due to their superior type of construction, which permits of the use of parts of ample size, they will operate continuously for a much longer period without overheating than any portable machine heretofore offered.

The Condensors are large and of over-capacity in order to prevent breakdowns. The Coils are all wound over-capacity to prevent over-heating in continuous and hard usage. The insulation of the coils used is equal to that of very expensive machines.

The range of adjustment is ideal and suitable for all treatments.

All Cords are sparkless and there is no possible danger of shocks. The machines are instruments of marvelous simplicity and efficiency that operate on any alternating or direct current without adjustment, and are fool proof in construction.

They are economical in operation. The power consumed is less than that used by the ordinary electric light.

The Master reputation has been built by supplying the most superior product on the market. Extreme care in the selection of material, rigid inspection, skilled craftsmanship, and years of experience make Master Violet Ray Instruments stand out in a class by themselves.

SPECIAL FEATURES FOUND ONLY IN THE MASTER VIOLET RAY INSTRUMENTS



Master Patent Electrode Socket

A very important feature of all Master Violet Ray machines is the special patented Master Electrode socket terminal which is a part of the resonator coil. Should the electrode break, the coil can simply be unscrewed from the hard rubber housing and the electrode end easily removed by inserting a screw driver or knife in the insertion, as shown in illustration,

In the past, where the electrode has broken, it has been necessary for practically all users to take these to an electric shop or repair man to have the electrode end removed. This annoyance is altogether eliminated, both to the user and the dealer, by the patented Master Electrode Terminal socket which is found only on Master Violet Ray machines.

MASTER VIOLET RAY No. 10



The lowest priced model violet ray machine ever offered by a responsible manufacturer. No exposed parts. Works on either direct or alternating current: Equipment consists of generator and general electrode in substantial container. The world's greatest value in a Violet Ray. At its price it has no competition. \$7.75

For 220 volt or 32 volt add \$1,50.



MASTER VIOLET RAY No. 11

This wonderful new machine comes equipped with three electrodes—comb, throat and general, contained in a very beautiful red lined carrying case. The size of the case is 14 inches long and 9 inches wide, making it a large attractive outfit. The magnet coil is mounted on a highly polished Formica plate. Coils and condensers are oversize to prevent overheating and the Tesla coil is designed to stand hardest usage. We are using the same type of construction on this machine that all manufacturers use on their highest priced models; namely two piece construction. Equipped with three electrodes it represents the world's greatest value in a product of this kind and is the fastest selling machine ever offered.

Price \$12.50

For 220 or 32 volts add \$1.50.

Our 220 volt windings will run on both A. C. and D. C. current. Voltages of from 200 to 240 volts.



MASTER OUTFIT No. 1

Universal Generator and Surface Applicator

The Universal has been built to supply the demand for a high-class Violet Ray machine, with features of the higher price types at a price within the reach of everyone. With the perfection of the Universal, we are now in a position to offer our customers a low priced Violet Ray instrument, which may be sold without fear of a dissatisfied buyer and with the knowledge that the best machine obtainable at its price is being placed in the customers' hands.

The Magnet Coil and Adjustments are mounted in the carrying

The Magnet Coil and Adjustments are mounted in the carrying case. The Resonator Coil is contained in a separate Hard Rubber Handle of special design. The Handle and Cords are shock

proof.

MASTER VIOLET RAY OUTFIT No. 1

The outfit includes the Generator and General Electrode No. I. The Electrode is mounted in carrying case, which is equipped with a clip holding it in place, to prevent breaking.

We are the originators of this type of two-piece construction and have made it the most popular Violet Ray machine on the market.

Price\$12.50

For 220 or 32 volts add \$1.50.



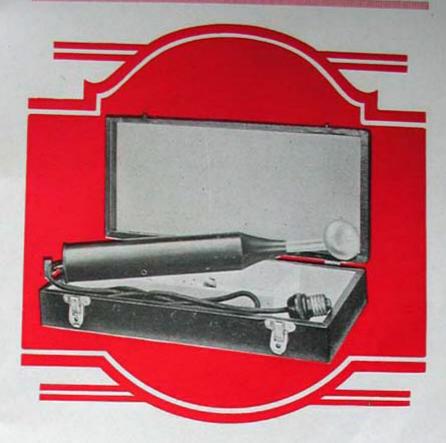
MASTER VIOLET RAY No. 2B

This machine represents the latest development in a one piece outfit. Due to our special type of construction the machine cannot be thrown out of adjustment by turning the adjustment knob too tightly and locking the vibrator springs, a defect found in most other one piece outfits.

An exceptionally strong hard rubber housing is used and the coils are so constructed that they will not overheat. This machine is without competition where lasting qualities and value are considered. sidered. Equipped with handsome carrying case with No. 1 Surface, No. 3 Comb and No. 12 Metal Electrodes.

For 220 or 32 volts add \$1.50.

Our adjustment is a piece of precision mechanics, highly developed, accurate and dependable. There are no parts that will come apart and the arrangement of adjustment prevents locking of vibrators thus allocated and the arrangement of adjustment prevents locking of vibrators thus eliminating burning out of the coils. This is a feature of all Master machines.



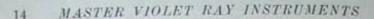
MASTER OUTFIT No. 2

This machine is of the one-piece type: that is, the entire outfit is contained in the handle and there is no separate Coil contained in cabinet or carrying case. For those who desire simplicity in appearance and operation, this Master One Piece type machine offers the greatest efficiency possible.

The entire mechanism is enclosed in a beautiful highly polished Hard Rubber Housing. It is light in weight and comes equipped with a handsome seal grain carrying case, and surface electrode No. 1.

For 220 or 32 volts add \$1.50.

The new models of Master Violet Ray machines shown herein, are the result of years of experience in the exclusive sale and manufacture of these products. All Master machines are manufactured of the best material obtainable of highly skilled experienced workmen. Our various inspections are the most rigid it is possible to give.





MASTER VIOLET RAY No. 20

This machine represents the ideal portable machine. The adjustment knob acts as a switch and is located on the top of a beautiful highly polished panel of Formica. The handle of the machine is light in weight and makes a most compact and attractive portable model for those preferring the two piece type of construction. The carrying case is velvet lined, very strongly constructed, and the equipment contains the general electrode, the comb electrode and the eye electrode.

Price \$20.00

No extra charge for special voltage,

The Master Electric Company specialize on the manufacture of Violet Ray machines, and are the largest exclusive manufacturers of Violet Ray machines in the world. Every machine is thoroughly inspected and you are assured of receiving a machine perfect in every detail and fully guaranteed by a responsible manufacturer.



MASTER VIOLET RAY No. 235

A very popular and fast selling outfit. Our superior one piece type outfit in beautiful silk lined carrying case. The applicators included are the general No. 1, comb No. 3, external throat No. 4, eye No. 5, metal No. 12, and insulated internal throat No. 19. A most complete and beautiful equipment. This machine can also be furnished for operation on 32 volt or 220 volts without extra charge.

Price \$23.50

No extra charge for special voltage.

All Master Violet Ray outfits are designed to work on standard current 110 to 120 volts, A. C. or D. C.

The output of Master instruments are truly marvelous, not only is the amperage tremendously high at the full adjustment, but the milli-amperage is great in volume, causing much heat at the point of application to the body, an effect most desirable and not found in other instruments.



MASTER OUTFIT No. 8

This machine is designed to meet the demand for a complete Violet Ray equipment of the two piece type for home and profession, at a moderate price.

The case is designed to hold five electrodes, which are contained in a separate compartment with clips to hold the electrodes. A flap separates this compartment from the Generator. The case is velvet lined and very attractive,

The equipment consists of the Surface Electrode, Comb Electrode, Throat Electrode, Eye Electrode and Metal Saturator. In the illustration, a Cautery Electrode is shown in place of the Eye Electrode, choice of either is given. If neither is designated, Eye Electrode is furnished with the machine,

A beautifully finished, quality product at a popular price. One of our most popular sellers. Distinctively a Master product.

Price\$25.00

No extra charge for special voltages.



MASTER OUTFIT No. 4A MASTER DE LUXE VIOLET RAYS

The Generator is mounted in a beautifully finished mahogany cabinet with silk connecting cord. The handle of the machine is light in weight and is in a separate Hard Rubber Housing. The cabinet and the housing are contained in a Karatol covered carrying case, which is lined with velvet throughout. The carrying case has a separate compartment for electrodes which are protected by a flap, as shown in the illustration.

Cabinet may be hung on wall or placed on table and used separate from case. Very popular model in beauty parlors and

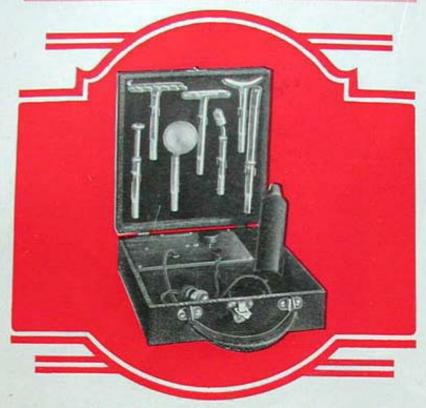
with professional people.

MASTER VIOLET RAY No. 4 For Physicians

This outfit is similar to the 4A, but is equipped with special electrodes for physician's use, consisting of one Body No. 1 and the Orificial electrodes, Nos. 20, 21, 22, 23, 24.

MASTER VIOLET RAY No. 4A

This is the machine shown in the above illustration and comes equipped with the following electrodes: General Electrode, Comb Electrode, External Throat Electrode, Eye Electrode, Cautery Electrode and Metal Saturator. Price



MASTER VIOLET RAY No. 50

This is a most complete outfit and a wonderful value. Has complete set of electrodes for all treatments. This generator is constructed with extra capacity condensers and has very great penetrative power, developing a current of great therapeutic value. Adjustment knob is located on top of highly polished Formica panel. The adjustment of this machine is truly remarkable, operating as it does on a ball bearing and holding a very minute adjustment, which is a very distinct feature with great lasting qualities. Carrying case is lined with velvet and is very beautiful in appearance. The very finest outfit to be secured. You will find nothing finer on the market at any price.

The Electrode Equipment Is Most Complete

Complete in velvet lined case with Surface Electrode No. 1 and Comb Electrode No. 3, Throat No. 4, Eye No. 5, Spinal No. 6, Prostatic Electrode No. 22 and Cautery Electrode No. 25,

No extra charge for special voltage,

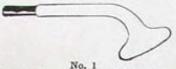
As a very important improvement in connection with our magnet coil construction we have a resistance winding of special alloy wire, which acts as an equalizer between the kick back coil and main line, thereby absolutely avoiding overheating. Master Violet Ray machines can be run for a long period of time without showing signs of heating found ordinarily in all other makes of high frequency apparatus.



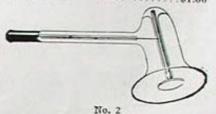
MASTER ELECTRODES OR APPLICATORS

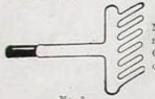
Vacuum Glass Electrodes for High Frequency Violet Ray Application are made in two types. Plain, or non-insulated and insulated. Insulated electrodes are used for Orificial treatments mostly, as they deliver a greater quantity of current at the desired locality.

Master electrodes are made of the best grade of special glass, which will stand heavy usage without signs of deterioration. The vacuum in Master electrodes is perfect. The end of the electrodes are protected by metal caps, which insure greater life. All electrodes are carefully tested and packed.

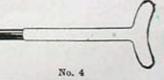


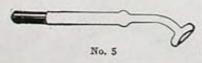
No. 2 Condenser Electrode.—As the name implies, it condenses the current, and produces a strong, even flow; also generating electrical heat which is very desirable in deep scated cases. Used for Rheumatism, Lumbago, Neuritis, Etc.



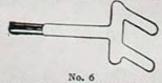


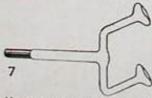
No. 3 Comb-Rake Electrode.—Used for all scalp treatments; Falling Hair, Dandruff, Gray Hair, and for stimulating the hair cells Price \$2.25



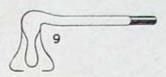


No. 6 Spinal Electrode.—For all Spinal treatments. Arranged so that it fits over both sides of the vertebrae.



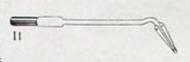


No. 8 Small Cataphoric Electrode.—This electrode is made with an indentation on the surface to hold absorbent cotton and liniment of any kind. It is used in the treatment of Rheumatism, Lumbago, Neuralgia or in fact wherever liniment is used in connection with any Master Violet Ray machine. Price. \$3.50





No. 11 Insulated Ear Electrode—
This electrode has been specially designed for treatment of the ear. It is used for the treatment of all Catarrhal conditions in the ear, and for ear ache, deafness and head noises, etc. Price \$2.25



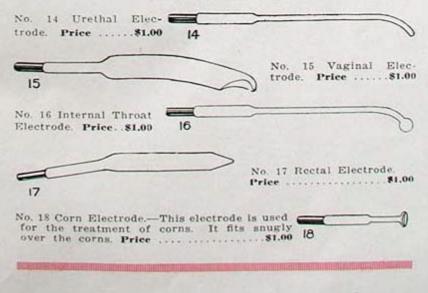


No. 12 Metal Electrode.—This delivers a strong current and is excellent for general tonic and where constitutional effects are desired. When held by the patient, there is no muscular contraction, merely a sense of warmth through the entire body. The current can also be drawn to any part of the body by using the No. 1 electrode or the fingers of the operator. Price. \$1.00

ORIFICIAL TREATMENTS

All Orificial electrodes must be lubricated before insertion. For the sake of safety there should be two people in Orificial work, the patient and the operator. The current should be turned on after inserting the electrode into the orifice and turned off before removing the electrode. Orificial treatments are never painful. The electrode should be moved slightly to avoid sticking to mucous membrane. Treatments are not to be continued longer than five minutes.

PLAIN ELECTRODES



INSULATED ELECTRODES

The advantage of insulated tubes is that the current may be introduced without loss into the orifice of the body. In using plain electrode for an orifice, much of the current is lost at the first point of contact. For instance if the prostatic gland is being treated with the plain electrode, much of the current is drawn off at the opening of the rectum, but if the insulated tube No. 22 is used, the current is conveyed to the desired point without loss of current.

No. 19 Nasal Electrode.-Used for rhinitis, 19 nasal catarrh, etc. Price \$2,00 No. 29 Internal Throat Electrode.—Used for tonsilitis, hyperthrophy of the tonsils ulcers of the tonsils, etc. 20 Price \$2 00 No. 21 Urethal Elec-trode.—Used for cystitis. strictures, gonorrhea, etc. Price82,00 21 No. 22 Prostatic Elec-trode.—Designed so that it fits directly over the prostatic gland. In many cases this electrode can also be used for vaginal work in place of No. 24. 22 Price No. 23 Insulated Rectal Electrode, Price \$2.00 23 No. 24 Vaginal Electrode.— (without perforations). 24 No. 25 Cautery Electrode.—This has a platinum wire sealed in the glass. For removing warts, moles, or growths of any nature, it cannot be excelled. Very seldom is it necessary to give more than two treatments, most often one application is all that is necessary. No. 25 No. 26 Special Vaginal Electrode.—Made with perforations so that ozone may be generated within the vagina. Used for ovaritis leucorrhea, vaginit's and all pelvic inflammations.

CARE OF ELECTRODES

26

Keep the electrodes clean. Washing with warm water and soap is sufficient. Electrodes will stand heat and can be boiled in water.

MASTER NEON HIGH FREQUENCY ELECTRODES

Neon Red Ray Electrode consists of an Electrode which has been highly evacuated and filled to a definite pressure with a very rare gas called Neon. The process of securing Neon is very complicated and expensive, therefore, commercial price of Neon is extremely high. Neon has two salient properties, the faculty of readily conducting electric current and emanating an orange red light which has proven itself to possess decided healing properties. This light can be only secured through the use of Neon gas. When these properties are used in High Frequency Electrodes a great increased efficiency is noticeable in the treatment of certain conditions. The most sensitive parts may be treated with Neon Electrodes without irritation, and they are extremely beneficial to any pustulous or inflamed condition.

Neon electrodes may be used with any Master Violet Ray machine.

NEON ELECTRODE PRICES

All regular Violet Ray Electrodes listed at \$1.00 can be supplied at \$3.00 cach. All regular Violet Ray Electrodes listed at \$1.50 and \$2.00 can be supplied in Neon Electrodes at \$4.00 cach.

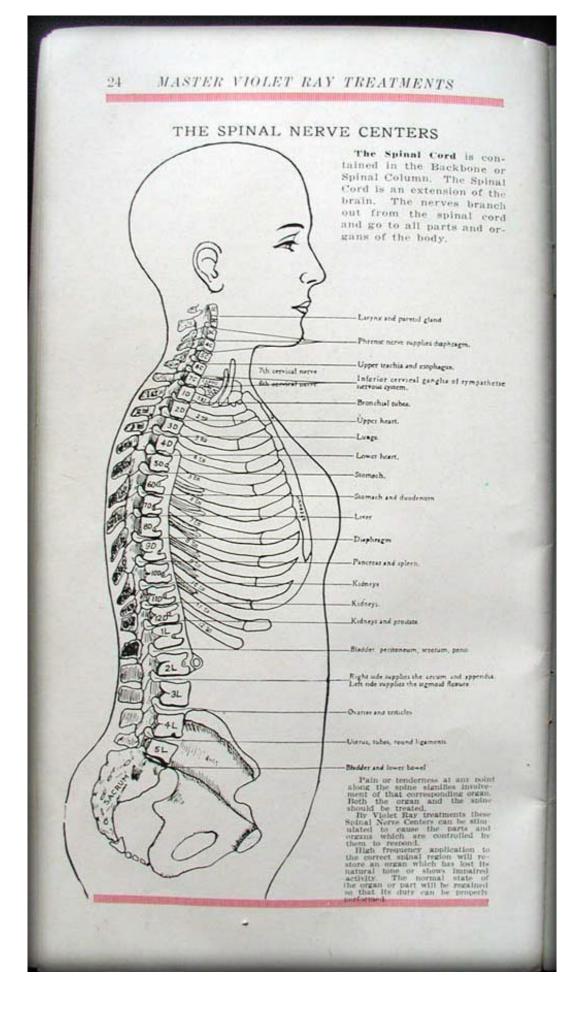
UNBREAKABLE ELECTRODES



This electrode is made of a special composition supplied in the Surface Electrodes only. These electrodes not being made of glass, are unbreakable. Price \$3.50.

NOTE

The electrodes will lose their exhaustion in time and wear out much on the order of an electric light bulb. When difficulty arises with the machine it is usually with the electrode. Try another electrode before blaming the machine. Master Violet Ray seldom give the user—trouble and will last indefinitely. Nothing is to be oiled or adjusted.



MASTER VIOLET RAY TREATMENTS

The following are suggestions. In most instances the individual will develop their own technique in their own case,

will develop their own technique in their own case.

Violet Ray treatments need not be of long duration. Short treatments at frequent intervals are very effective. Always start with the weakest current possible. The initial discharge which tact should be avoided. Make contact with electrode quickly when beginning and finishing treatment. If metal object like hairpins, corset steels, chains, etc., cannot be avoided in the treatments they should be removed.

USE YOUR MASTER OUTFIT AS A FIRST AID

There is no quackery or uncertainty about the Vlolet-Ray High-Frequency Current. It is a thorough cell massage, and a wonder-ful stimulant, and while it is by no means put forward as a cure-all, yet it is of the utmost aid in restoring to normal the physical condition impaired from almost any cause. The results obtained are universally beneficial and can never in any instance

MASTER VIOLET RAY TREATMENTS

The following are suggestions for the treatment of disease taken from cases where physicians or clinics have obtained excellent results. Not all cases will be cured through High-Frequency alone, but in every case it is a valuable adjunct to other treatment; in fact, many cases have been greatly benefited where medical treatment has failed.

Alopecia or Falling Hair—Use Comb electrode No. 3. Use a mild current at first, which can be increased with treatments. Pass the comb back and forth over the entire scalp for about five minutes every day. This same treatment can be used for gray hair in restoring it to natural color. Use same treatment for baldness. Do not use the Violet-Ray on the hair immediately after applying any preparation containing more than forty per cent of alcohol.

Acne: Pimples—Treat the entire surface for about seven minutes with the Surface electrode No. 1. If the skin is damp, either apply talcum powder, or treat through handkerchief or other clean cloth. Use a medium current.

Anaemia—General application to the entire body. Treat with Surface electrode No. 1, over the chest, and Throat electrode No. 4, on throat glands, the treatment to last from five to ten minutes. The Ozone Generator is also of the utmost benefit.

Ammenorrhea—Irregularity—Suppressed Menses—With the vaginal tube No 24 or 26 an emmenagog effect can be produced. Apply any antiseptic lubricant to tube. Give 10 minue treatments every other day. Also apply surface electrode No. 1 to spine, 5 to 10

Abscess—To abort an abscess, the use of the surface electrode has been found to be the most beneficial. Keep tube in contact with skin. Apply any antiseptic lubricant on tube before applying. Give 5 to 10 minute treatments.

Adhesions—In conditions following operation or inflammatory conditions, use the condenser tube No. 2. Apply any antiseptic lubricant on tube. Give 10 to 15 minute treatments daily.

Asthma—Apply Surface electrode No. 1 or Condenser No. 2 over the chest and throat glands for about 5 minutes with a strong current. Treatment of Asthma is also found to be very successful by the use of the Ozone attachment, filling it with 1 dram of Oil of Pine; 1 dram of Oil of Eucalyptol; 5 minims Beechwood creosote. Inhale 3 to 5 minutes daily.

Atrophy of the Optic Nerve—By the use of the eye electrode No. 5 excellent results have been attained. Single or double electrode. Intensity of current should be regulated very low, giving 10-minute treatments daily. Apply to the lids, closed.

Ataxia-Use as a strong current as can be tolerated, to spine, er abdomen, and back of legs. Give milder treatment as imover abdomen, and back of legs, provement is noticed.

Barber's Itch-General treatment with electrode No. 1 for five minutes daily.

Blepharitis-Infection Edges of Eye Lids-Excellent results can be produced by the use of the eye electrode No. 5; treatments 10 minutes daily. Also use throat tube No. 4 to go around area of the conjunctiva or mucous membrane of the eye 5 minutes.



Pains in Back Quickly Relieved

Boils — Furunculesis — In treatment of Boils, excellent results have been obtained by giving a light spark around area of infection with the surface electrode No. I and then applying the electrode direct on same twice daily. 5-minute treatments,

Bruises — Use Surface electrode over area affected. Treatments about five to ten minutes. Medium or strong current.

Bunions — Use Surface electrode in direct contact with skin, with medium current for about five min-

Rurns — Apply electrode in close contact with the burned area, using a mild current for a short time, two or three times a day.

Brain Fag—Use applicator No. 1 over forehead eyes. Also treat the back of head and neck with strong current in direct contact with the skin. Treat the spine and hold the electrode in the hand. Ozone inhalations for about four minutes are also of importance.

Blackheads—A mild to medium treatment of five minutes daily. Use Surface electrode No. 1, and apply talcum powder before treating.

Bronchitis—By the use of the Ozone attachment, very beneficial results and great relief can be obtained immediately. Use same mixture as in treatment of Asthma.

Carbuncle—Use the surface electrode No. 1, applying same direct, 10 to 15 minutes daily.

Cataract—Great relief can be obtained in the early stage of cataract by the use of the eye electrode either single or double, with a very fine current, not exceeding 14-inch in length.

Callouses—Use a strong electric current with Surface electrode No. 1. The current can also be applied by holding electrode a short distance from the skin.

Cancer—Surface cancers not too far developed can be treated with Cautery electrode No. 25. Anesthetics may be required. Surgery is usually necessary.

Carbuncles-See Boils.

Catarrh—Nasal—In this condition the nasal tube is used within the nose with a mild current within the nasal passages, 2 to 3 minutes on each side, followed by an application with the surface electrode externally over the area of the nose. Use ozone generator

Catarrh of Womb-Use Vaginal electrode No. 24 or No. 26 for five minutes daily. Electrode to be lubricated before insertion.

Chilblains—Use Surface electrode with strong spark applied directly to the skin. Treatment to last about ten minutes.

Cold in Head-See Nasal Catarrh.

Cold in Lungs-See Asthma.

Cold Extremities—Apply Surface electrode direct to affected parts, using a strong spark for about five minutes. Also apply electrode to the spine; keep the electrode about one-half inch from the skin until the surface is red.



Perfectly Harmless. Can Be Used For Baby

Constipation—Apply Surface electrode over the bowels. Apply for about ten minutes moving the electrode. Use a strong current. Physicians use Rectal electrode No. 23 for insertion into the Rectum. Orificial treatments last about five minutes.

Cervicitis—The use of the vaginal electrode No. 24 is very effective, giving 10 minutes daily. Use any antiseptic lubricant on same before inserting.

Coryzn—Use the surface electrode No. 1 rubbing same over forehead and sides of face 15 minutes daily.

Cystitis—With the use of the rectal No. 23 and urethral No. 21 tubes, remarkable results have been obtained. Give 5 minutes daily, using any antiseptic lubricant on the electrodes.

Dandruff-See Alopecia.

Deafness, Earache and Ear Diseases—Apply Ear electrode with very mild current into the ear. Care must be exercised so as to not touch the ear drum. Three to five minutes is sufficient.

Diabetes—Apply Surface electrode over the abdomen and spine through a thin towel or cloth for ten minutes. Diet must be observed, Complete results must not be expected before several months

Diphtheria—Apply Surface electrode to outside of throat and spine. Insulated Throat electrode, inside. Treatment not over ten minutes, repeated at short intervals. Ozone inhalations are also of great advantage.

Dyspepsin—Use electrode No. 1 or No. 2 over the stomach and solar plexus with a strong current for about ten minutes.

Eczema—By the use of the surface electrode No. 1, excellent results have been obtained by giving the patient as much current as can be endured. Another beneficial way of treating is to apply gauze over the area and go over same with the electrode.

Enteritis—In acute cases of Enteritis not as beneficial results may be expected as in chronic cases, but same can be treated by giving tonic applications with the surface electrode No. 1 over the area of the abdomen. 15-minute treatments daily. In chronic cases, excellent results can be obtained by giving treatment twice daily with the condenser electrode.

Epididymitis—Great relief is given immediately by the use of the surface electrode No. 1 in the area involved. Give 15 minutes dally,

Erosions of the Cervix Uteri-Excellent results have been obtained by the use of the vaginal electrode No. 24. Bring tube in contact with the Cervix, giving 10 minutes daily, using any antiseptic lubricant on the tube.

Freekles Cover surface with gauze and treat daily with a medium current of from five to ten minutes duration. Results are quite apt to be very slow and patience is required.

Front Bites - See Chilblains.

Fissure-Anni- Remark-Fissure—Anal—Remark-able results, and in many cases complete recovery, can be expected by the use of the rectal electrode No 23 tube. Aply an anti-septic lubricant on the tube before inserting, giv-ing 10 minutes daily ing 10 minutes daily

Goitre-In Goitre cases. by the use of the surface electrode No. I, the tube contact with the surface should be kept in light of the skin, treating the sides of the neck as well as over the Goitre itself, giving 10-minute treatments daily. ments daily.

Gonorrhea-In sub-acute or chronic forms, marked beneficial results have been obtained by the use of the urethral No. 21 or vaginal No. 24 electrodes. Apply any antiseptic lubricant on tubes before inserting. G ve 7-uinute treatments daily.



Glect—By the use of the urethral No. 21 and the rectal No. 23 tubes, unusual results have been obtained. Insert same with any antiseptic lubricant, giving 10 to 15 minute treatments daily.

Grippe—Breathing through Ozone Generator gives immediate relief. Follow with treatments over side of nose, and in some cases with Nasal electrode No. 19 internally. Treatment five to ten minutes.

Gout—Apply Surface electrode to the spine to stimulate the system. Then apply Surface electrode to the painful area with a medium current, keeping the electrode in contact with the skin but moving same about. Pain may be noticed at first but results are certain if treatment is continued.

Gray Hair—The natural color of the hair may often be restored by continued and patient treatments with electrode No. 3. See Alopecia. Several months are usually required for results. Use a current for stimulation at least once a day. Read Eberhardt's Manual.

Hay Fever—Apply Surface electrode over the nose and along spine with medium current for five minutes. Apply electrode No. 19 in nostrils for a short time. Treatment must be of short duration but frequently repeated. Use the Ozone Generator freely, it being advisable to Ozonate the entire room with it. For satisfactory results treatments should commence two or three weeks before period of attack before period of attack.

Headaches Frontal and Occipital headaches are relieved by using the surface tube No. 1 over the seat of pain. Keep the tube in loose contact and prolong the treatment until relief takes place, which usually takes from 5 to 10 minutes.

Hemorrhoids-With the use of the rectal tube No. 23, temporary relief may be obtained by giving 5-minute treatments daily.

Herpes-Zoster Application of the condenser tube in the eruption of Herpes Recovery can be hastened by giving 10-minute treatment daily. 3 to 5 treatments are usually sufficient.

Impotence—The most beneficial way of treating this condition is by the use of the prostatic tube No. 22 with plenty of spark. Use the surface electrode No. 1 slightly raised over the area of the spine from 5 to 7 minutes daily. Direct application with special electrode is also of great importance. This electrode can be used for 5 to 10 minutes. Treatments once or twice daily.

SOMEON STATE



Rheumatic Pains in Limbs Disappear After Few Minutes Treatment

Incontinence of Urine—Apply the surface electrode No. 1
over the area of the
spine, raising same
slightly; also apply
electrode around the
area of the Bladder.
5 minutes daily.

Influenza — Treat the spine and solar plexus with the No. 1 electrode. Also over the eyes and the sides of the nose. Treatments to the spine are made through a towel for five minutes. Also use Ozone Generator.

Insomnia — The method most beneficial has been the use of the condenser tube which is kept in light contact with the back of the head and the neck, going down the spine for about 5 minutes daily before retiring.

Intra-Ocular Hemorrhages—The eye electrode No. 5 in contact with the closed lids using a very light current for about 5 minutes, has produced favorable results in many cases.

Iritis-Treat as outlined above. Good results have been obtained in Syhpilitic-Iritis.

Jaundice—By the use of the condenser electrode, great relief can be obtained. Apply electrode over the area of the liver, 10 minutes daily.

Laryngitis—The throat electrode either by the loose contact or mild spark will greatly aid in treatment of this nature. Ozone inhalations are most advisable.

Lumbago—Apply the current through the clothing with as strong a current as can be tolerated. Continue treatment until pain is gone. Keep the electrode moving and give long treatment.

Leucorrhea—Use Vaginal electrodes No. 24 or 26, lubricating before insertion. A medium treatment for five minutes is applied and repeated as circumstances require. Current should be turned on after insertion of electrode and off before removal of electrode. Antiseptic douches in connection.

Metorrhea-Treat the same as Amenorrhea,

Neuralgia-To obtain a hurried relief of neuralgia, the surface electrode No. 1 should be used. Pass back and forth in light contact with the skin, giving 10-minute treatment as needed.

Neuritis—Use Surface electrode for five minutes at a time. Several treatments a day are advisable. Use light current at first, and gradually increase same. Apply locally or to entire body, depending upon the condition.

Obesity—Apply Surface or Condenser electrode No. 2 for fifteen minutes twice daily. Use very strong current. Fats will be consumed by increase of oxidation but diet must be reduced and watched.

Orchitis-Relief can be immediately obtained with the surface electrode No. 1 over the area of the testicles, giving 5-minute treatments.

Parotitis—The condenser electrode, using a medium intensity of current over the diseased area, giving 5 to 10-minute treatments daily, is very beneficial.

Pharyngitis-In acute forms with the use of the throat electrode quick relief can be obtained. Give 5-minute treatments daily.

Pleurisy—Using the condenser tube over the front and back of the chest until a marked reddening of the skin indicates a counter irritation. Two or three treatments are necessary in acute cases and one daily in chronic cases.

Psoriasis-This is treated by the same technique as that employed in eczema.

Piles-See Hemorrhoids.

Rheumatism—The condenser tube is of exceptional value in chronic and muscular rheumatism. Apply the electrode over the area 10 to 15 minutes daily.

Ringworm-Use the Surface electrode and apply short sparks several times a day with a medium current for several minutes.

Sears—By the use of the surface electrode No. 1 a softening effect can be produced on soft tissue, treating same 5 to 7 minutes daily.

Scintica—Apply the condenser electrode along the course of the nerve and over the lower part of the spine, giving 10-minute treatments daily.

Sinusitis—The use of the surface electrode No. 1 gives a hurried relief by applying same over the area of the Sinuses daily for 5 minutes.

Sore Throat and Throat Diseases—Use Internal Throat electrode No. 20 with medium current for five minutes, and for the External Throat electrode No. 4 on the outside of the throat for the same period of time.

Stiff Neck and Joints-Apply Surface electrode, using the same method as explained in Neuritis.

Tonsilitis-Use treatment as above for Sore Throat. Ozone treatments are also of importance.

Tuberculesis—In the incipient type of tuberculosis, exceedingly good results can be obtained and tubercul bacilli eliminated by the use of the Ozone attachment, filling same with one-half dram of oil of eucalyptol, and one dram of oil of pine, ten minims of beechwood creosote, using the same morning and night. With the use of the general electrode over the area of the chets, this will also be found beneficial using same 10 minutes daily.

Urticaria—Hives—Urticaria can be quickly eliminated by the use of the surface electrode No. 1, going back and forth over the area for 10 minutes daily until condition is gone.

Warts and Other Small Growths—The Fulguration electrode should be used, as it throws a fine sharp spark. Apply to growths long enough to cauterize the surface. A few seconds is usually all that is necessary. Wait a day or two for results and, if necessary, repeat. Where there is no Fulguration electrode the Surface electrode can be used by holding it about one-eighth inch from the growth and allowing the sparks to pass from the edge of the glass

Writer's Cramp-In this condition a hurried relief can be effected by the use of the surface tube No. 1 over the area of condition, using same until condition is relieved.

Wry Neck-Torticollis-Using the No. 1 or No. 2 over the area of the neck and down the spine daily for 10 minutes, relief can be effected.

DIRECTIONS FOR OPERATING

The Master Violet Ray

- 1. Insert glass applicator into the instrument,
- 2. Attach the connecting plug to the lamp socket.
- 3. Turn the current on.
- Adjustment of the Violet Ray discharge is obtained by the adjusting knob. To the right the discharge increases, to the left it decreases.
- Start any treatment with a mild discharge and increase it gradually to the required strength.
- Take good care of the connecting cord. Keep it dry and free from knots and twists. Have it repaired in time if signs of wear appear.

DON'TS

- Do not attempt to repair the apparatus. If the necessity arises, write to the Factory advising of your difficulties and you will be informed what to do.
- Do not use the Master in connection with any tonic or medicant containing a large percentage of alcohol on the hair or any part of the body.
- Be careful with the apparatus and when not in use turn the current off. Be on the safe side and remove the connecting plug from the lamp socket after use.
- 4. Do not use in connection with electric bath.

NOTE: Damages arising from carelessness are not covered by our guarantee. If instructions are properly followed, the Master will last indefinitely.

Unless otherwise specified all machines will be furnished to operate on standard voltage of 110 to 120 volts. Machines can also be furnished to operate on 220 volts and 32 volts.

GET YOUR MASTER VIOLET RAY NOW

The Master Violet Ray is the most practical, serviceable instrument you can secure. They are designed to meet the requirements for a high grade Violet Ray for the home as well as the profession.

Its simplicity of operation, wide range of adjustment, durability, beauty and unique construction make it the ideal general purpose Violet Ray. We challenge anyone to offer a better Violet Ray at anywhere near its price.

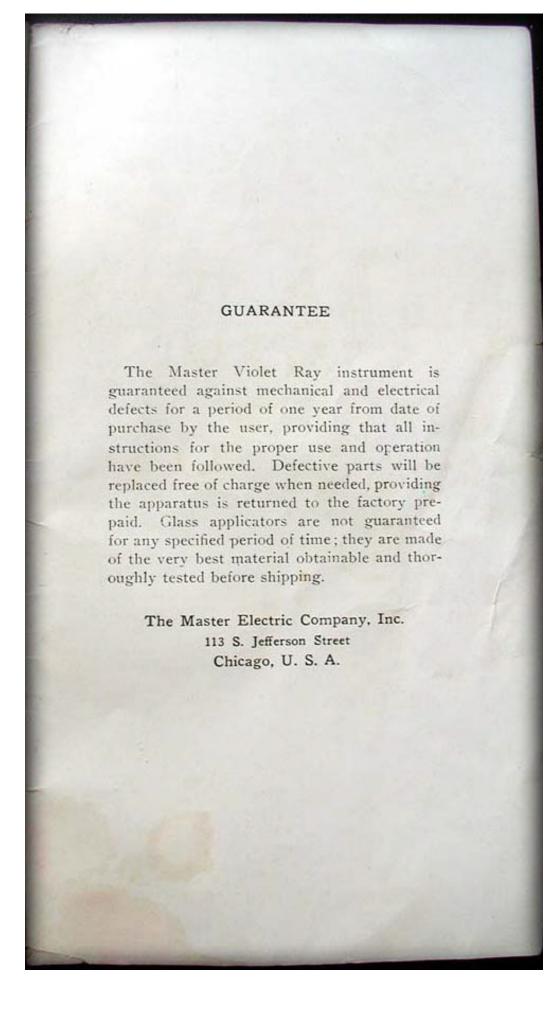
Master Violet Ray instruments are equipped with perfectly balanced coils which prevent their overheating, a feature that should not be overlooked when purchasing any Violet Ray. Because of this feature, our instruments may be used constantly for long periods without fear of overheating.

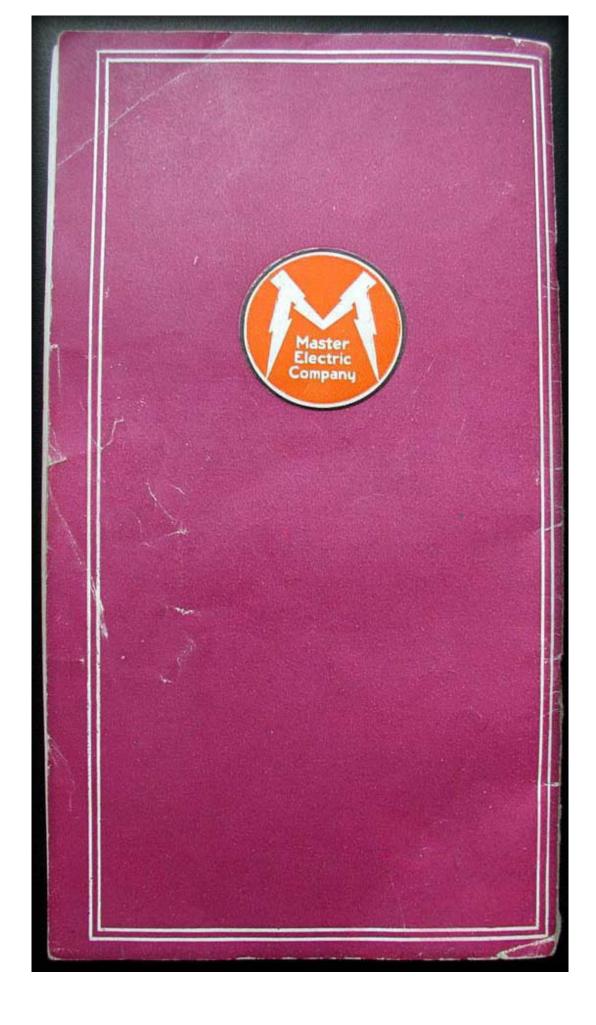
Every point of construction, every piece of material used, is given careful attention with the view of placing in the purchaser's hands the best your money can buy. An instrument that will give service when needed and one that will not break down under continued use.

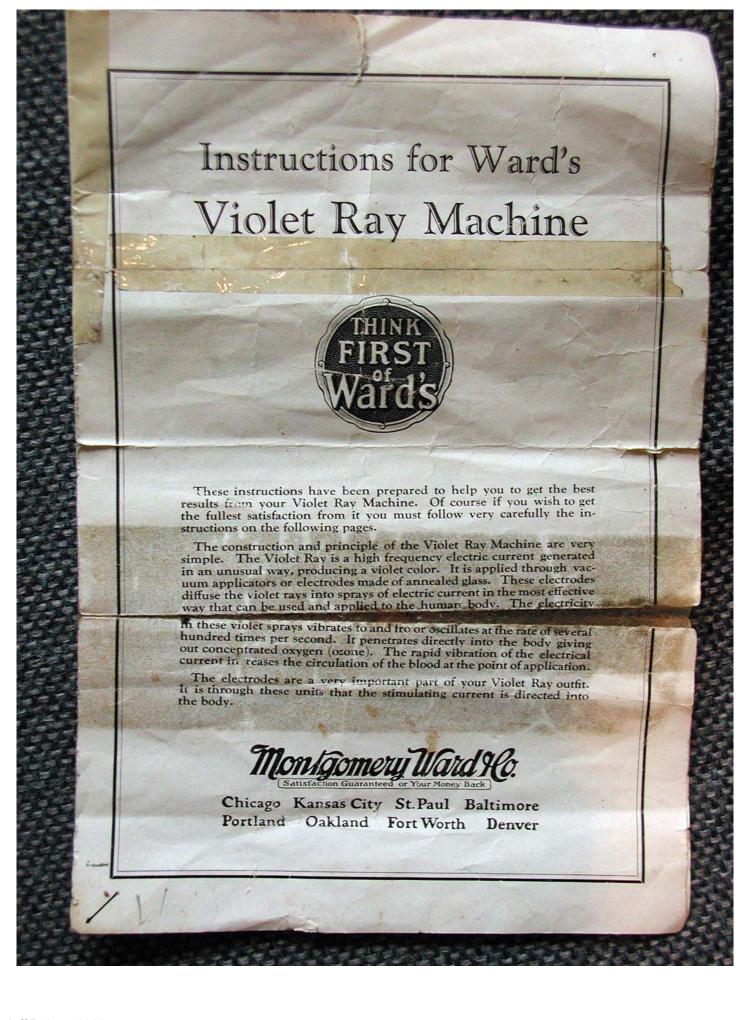
We manufacture only high grade, substantial machines. Quality considered, the price is most reasonable, within everybody's reach.

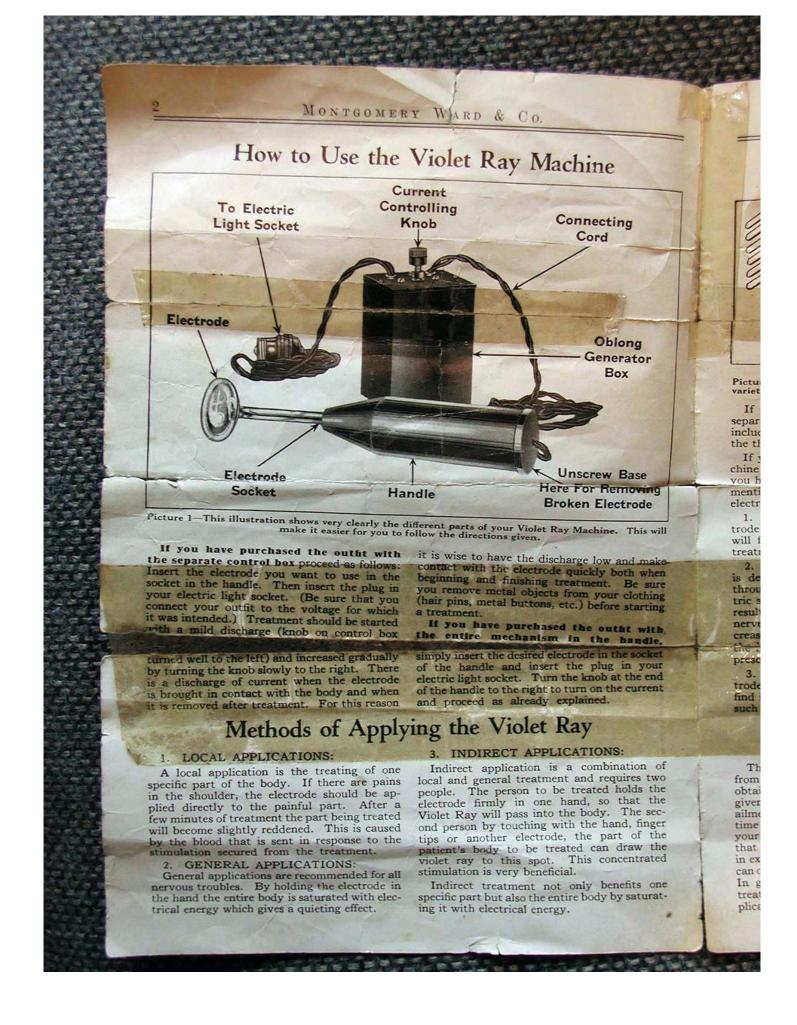
These and the fact that thousands of others are deriving complete satisfaction from the use of their instruments, are the reasons why you should insist on securing the Master Violet Ray only.

The wonderful Master Violet Ray treatments are now within the reach of every man, woman and child in the world. The remarkable curative and health promoting properties of Violet Rays are available in every home at a cost so low that nobody can afford to be without a Master Instrument. The machine will last for years and pay for itself over and over again.

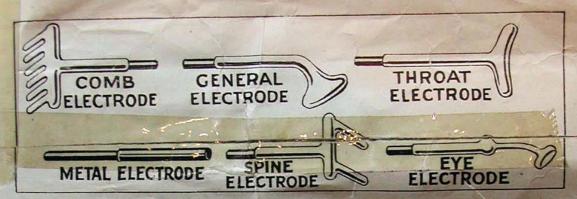








The Electrodes



Picture 2—This shows the various electrodes which are furnished with your Violet Ray Machine. This variety of appliances has been furnished in order that you might give treatments with the greatest ease.

If you have purchased the outfit with the separate control box there are three electrodes included in your set, the general electrode, the throat electrode and the comb electrode.

If you have purchased the Violet Ray Machine with the entire mechanism in the handle, you have three electrodes in addition to those mentioned above; the spine electrode, the eye electrode and the metal electrode.

- GENERAL ELECTRODE: This electrode is for general use on the entire body. You will find it can be used for the majority of treatments.
- 2. COMB ELECTRODE: This electrode is designed so that it can be pulled easily through the hair. The thousands of tiny electric sparks that find contact on the head as a result of this treatment gently massage the nerves and blood vessels of the scalp. It increases the flow of nourishment to the roots of the hair. This treatment is useful in helping preserve the natural color of the hair.
- 3. THROAT ELECTRODE: This electrode is designed to fit over the neck. You will find it helpful in treating ailments of the neck such as tonsilitis and stiff neck.

- 4. THE SPINE ELECTRODE: This electrode is so designed that the two points which find contact with the body fit over the spinal column and in this way make treatment more convenient.
- 5. METAL ELECTRODE: This appliance delive's a strong current and is excellent for general treatment. The patient can hold this electrode without any muscular contraction.
- EYE ELECTRODE: This electrode is so constructed that it fits closely over the eye.
 It is used for the treatment of eye complaints and for stimulating the optic nerve.

These electrodes can be washed with soap and water without harm to them. Keep them clean to obtain the best results.

The electrodes will burn out in time like an electric light bulb. You will find the various electrodes listed in our large General Catalogue.

Should you accidentally break an electrode while it is in the socket it can be removed easily by unscrewing the base of the handle and taking out the socket. You will then be able to push out the broken parts of the electrode. This does away with the expense of a repair man.

Suggestions for Treating Various Ailments

The following information has been taken from cases where physicians or clinics have obtained excellent results. The information given will prove helpful in treating the various ailments. After using the Violet Ray a short time you will learn the best method of treating your particular case. It must be remembered that no two people respond to any treatment in exactly the same way. Only by actual trial can one be certain of the benefits to be obtained. In general, any malady that yields to heat treatment will be helped by Violet Ray applications.

Remember the three methods and the two effects that can be obtained. Do not use the Violet Ray on the hair or body in connection with any tonic containing a high percentage of alcohol. This machine is not a cure-all but has been found helpful in the treatment of the following conditions.

Acne: (pimples):—General application with the general electrode over the affected area.

Abscess:—For abscesses the use of the general electrode has been found to be the most beneficial. Keep the electrode in contact with the

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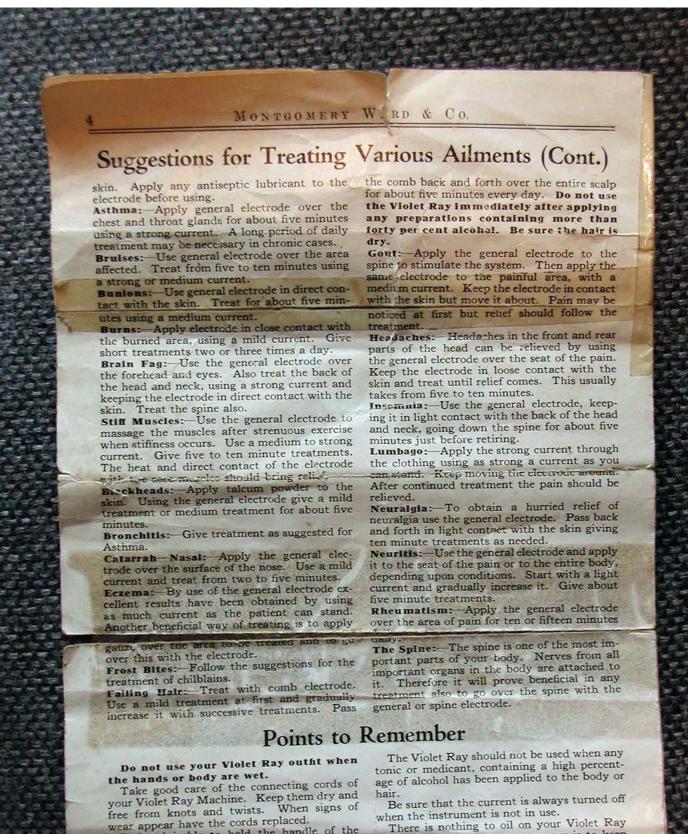
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It is advisable to hold the handle of the machine at the end away from the electrode. Should the current be turned on, the current will jump from the tip of the handle to the hands, if they are near at the end at which the electrodes are inserted.

There is nothing to oil on your Violet Ray
Machine. The only care necessary is to keep
it clean and dry.

Start any treatment with a mild discharge and increase it gradually to the required strength. This will insure painless treatment.

C-55

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THE APPLICATION OF

RenuLife Violet Ray

High Frequency for

ABSCESSES
BALDNESS, FALLING
HAIR (ALOPECIA)
DANDRUFF
BLACKHEADS
BRUISES
EUNIONS

ECZEMA AND SKIN DISEASES PIMPLES (ACNE) SCARS WARTS WRINKLES

Abscesses—High Frequency Violet Rays are specified for treatment of abscesses, as purifying and stimulating effect destroys the diseased condition.

Baldness, Falling Hair (Alopecia), Dandruff— High Frequency is an ideal remedy for loss of hair, which results from faulty nutrition. Two daily treatments of five minutes' duration taken regularly and persistently almost invariably give satisfactory results.

Dandruff, gray hair, itching scalp are likewise successfully treated. Violet Rays are the best hair tonic procurable, as they actually revitalize the hair roots. In many cases gray hair has been restored to its original color.

Blackheads—This annoying skin disease is caused by faulty functioning of the skin. Violet Ray treatments not only will remove the blackheads, but, by stimulating the skin and bringing blood to the treated area, establish a healthful condition, preventing a recurrence of the trouble

Bruises—Applied to the bruised or swollen area, the Violet Ray generally brings immediate results. Best results are accomplished by using high frequency lubricant, which is driven into the tissue by the application of the Violet Ray.

Bunions—This painful affliction of the big toe joint is greatly relieved by Violet Ray treatments. The inflammation subsides and soreness disappears.

Eczema and Skin Diseases—The reaction to High Frequency Violet Ray on the skin is such

Colds are an acute attack of catarrh. Treatment for colds is similar to that for catarrh and the results are usually rapid and satisfactory.

Hay Fever is a persistent irritation of the mucous lining of the nostrils and throat which recur in a person at a certain period of each year, Sneezing, watering nose and eyes and smarting throat and nose are some of the symptoms. Many reports have been made of the favorable influence of High Frequency in these cases. Direct application to the nose with the nasal electrode and mild current, also treatment of the nose externally. Inhalations of Ozone are of even greater importance.

Deafness and Ear Diseases-Deafness may be due to any one of several causes and the manner of treating for best results depends on the cause of the trouble. The ear drum may be diseased or it may have been punctured. It may be due to the disease of the nerves or small bones in ear. Inflammation of the eustachian tube which leads from throat to middle ear will cause deafness. For deafness and ear trouble High Frequency is strongly recommended. The special electrode for inserting in the ear should be used. A sensation of warmth is produced and congestion, inflammation and pain are almost immediately relieved.

Sore Throat and Throat Discases-The application of High Frequency Violet Ray to the exterior of the throat is one of the most effective means for treating such local troubles as tonsilitis, quinsy and sore throat. High Frequency brings a fresh supply of blood to the affected

parts, relieves congestion and pain.

Whooping Cough-The efficacy of Ozone generated by High Frequency and taken through the Ozone Generator in treating whooping cough has been attested by many authorities. Says L'Abbe: "Ozone is the remedy par excellence for whooping cough."

Pulmonary Ailments-Ozone is especially effective in consumption. This is due to the fact that Ozone is twice as powerful in oxidizing properties as ordinary air. For all diseases of the air passages the use of Ozone is strongly recommended.

OZONE

Ozone is simply a concentrated form of Oxygen or pure air. Without oxygen we cannot live. When we breathe we fill the lungs full of pure air or oxygen. This oxygen passes through the walls of the lungs at the same time passing through and purifying the blood which is flowing through the walls of the lungs and which comes there from every part of the body to be purified.

It is the lack of pure air to purify our blood that causes us to be overcome with disease. Being cooped up in an office or factory all day long is responsible for most of our diseases and particularly diseases of the respiratory organs such as Catarrh, Bronchitis, Pneumonia, Asthma, Tuberculosis and Colds.

To overcome these diseases most doctors advise a trip to the mountains, the seashore or the pine forests in order to obtain the desired ozone or oxygen. The RENULIFE OZONE GENERATOR generates ozone or oxygen in sufficient quantities to prevent all this expense if used in your own home.

The RENULIFE OZONE GENERATOR is an attachment which fits in the handle of any of our VIOLET RAY Generators and delivers Ozone in large quantities for inhalation purposes. The Ozone penetrates every cell in the lunes, purify-

ing the blood, destroying disease germs and soothing the inflamed tissues For Asthma, Catarrh, Hay Colds, Coughs, Fever. Bronchitis, Tuberculosis, etc., there is no better treatment known. As one of our most noted sur surgeons puts it, "Ozone is essential wherever pure air is essential and should be used wherever any disease is present.

Ozone Generator No. 25......\$9.50

INSTRUCTIONS FOR OPERATING

Ozone generators are packed with nose piece attached; included separately are a bottle of pine needle oil and a glass funnel.

First, see that there is a small quantity (about a teaspoonful) of pine needle oil in upper chamber of ozone generator. To put the oil in chamber, use funnel. Detach nose piece from rubber coupling, and insert funnel in its place.

A teaspoonful of oil will do for a considerable period.

Insert stem of ozone generator in handle the same as any other electrode. Grasp holder of ozone generator with left hand, as shown in illustration; turn on medium current, and agitate bulb with right hand. Ozone filtered through pine needle oil is produced. A pleasing, purifying, powerful agency.

THE APPLICATION OF

RenuLife Violet Ray

High Frequency for

ASTHMA BRONCHITIS CATARRH (NOSE AND THROAT) COLDS HAY FEVER DEAFNESS AND EAR
DISEASES
SORE THROAT AND
THROAT DISEASES
WHOOPING COUGH
PULMONARY AILMENTS

Asthma is a spasmodic contraction of wind pipe or bronchial tubes causing difficulty in breathing and a wheezing when breath is expelled. Authorities seem to agree that the primal cause is nervousness. There is evidence of inflammation in lining of wind pipe and smaller branches of bronchial tubes.

Both the inflamed local conditions and the disturbed nervous center causing the trouble should respond to High Frequency Violet Ray Treatments. The exterior of throat and chest is given strong current treatments. Ozone Generator is specified as well as surface treatments along spinal nerve centers.

Bronchitis—The inflammation that is centered in the bronchial tubes is called bronchitis. The area of inflammation, however, may extend to the windpipe and even to the lungs. Soreness in the top of the chest, coughing, fever, headache, are symptoms of the disease. A continuation of thorough treatment over surface of chest, throat and back with ozone inhalations is very effective.

Catarrh—When the mucous membrane, whichelines all organs that open outside the body, becomes inflamed it is a condition known under the general name catarrh. This inflammation in the air passages, nasal and throat, is generally spoken of as catarrh. Violet Ray High Frequency unquestionably offers the catarrh sufferer more relief and benefit than can be expected from drugs. Both the exterior of the nose, treated with general applicator, the interior with special internal nose applicator, and inhalation from Ozone Generator for the triple attack on this dangerous disease.

that diseases, both of germ origin and from malnutrition, are successfully combatted. Reports of cure by High Frequency currents of eczema are numerous.

Pimples (Acne)—When the skin is diseased, High Frequency Violet Ray, applied through vacuum in a shower of sparks over the affected area, is very effective.

Scars—Vacuum tube sparks have a softening effect on scar tissue. For some scars caustic fulguration spark should be used which will destroy the scar tissue and pliable new tissue will take its place.

Warts and Moles—Beauty parlors regularly employ the Violet Ray, applied through a fulguration electrode, to remove warts, moles and other facial blemishes. The spot is treated with a hot spark which sears it. A crust or scab forms after several treatments which later separates, aving no scar. Sometimes it requires several treatments to entirely eradicate the growth.

Wrinkles—These are generally caused either by flabby facial muscles or by the habitual use of one set of facial muscles, causing lines to appear on the face. High Frequency Violet Ray revitalizes muscles and smooths out the wrinkles. Every beauty parlor makes use of this treatment; at can be just as effectively applied at home and be taken more often.

THE APPLICATION OF

RenuLife Violet Ray

High Frequency for

ANEMIA
ARTERIOSCLEROSIS
(HARDENING OF
ARTERIES)
CIRCULATORY
DISORDERS
CONSTIPATION

FEMALE COMPLAINTS
GOUT
HEADACHE
NERVOUS AFFECTIONS
PILES
PROSTATIC DISEASES

Anemia—High Frequency Violet Ray currents increase the oxygenation of the blood. Their employment in anemia, therefore, is quite effective. They may be used without interference with iron tonics, if desired.

Ozone inhalations are of the utmost value. This greatly facilitates absorption of oxygen by the blood resulting in a rapid increase of hemoglobin.

Arteriosclerosis (Hardening Arteries) (High Blood Pressure)—The use of Violet Ray High Frequency home treatments for these ailments is beneficial, but the sufferer should place himself in the hands of an electro-therapeutist, as a general systemic thorough treatment with diet instructions are required by the seriousness of the affliction. The use of High Frequency will lower the blood pressure.

Circulatory Disorders—No surer means of stimulating and accelerating circulation is known than High Frequency Violet Ray treatments. At the same time the blood itself is purified. Deposits and impediments dissolved. Cold hands or feet indicate the absence of rich, warm blood. This chilliness is quickly overcome by applications of Violet Ray to the parts affected. At the same time the blood is built up and eventually normal circulation established.

Constipation—High frequency may be used advantageously for constipation, application being made over the abdomen. Also, special rectal electrode for internal treatment.

Female Complaints—Very gratifying results secured in such cases. Full instructions for treatment are given in our treatment chart.

Gout—Gout is usually the result of excessive eating of rich food, or drinking of alcoholic beverages. Piercing pains, causing great agony, are suffered in the joint of the great toe. The diet condition should be immediately attended to and local treatments of High Frequency over the area of pain will give quick and sure results.

Headache—High Frequency Violet Ray treatment is very effective for headache. Only temporary relief may be expected where it is the reflex of serious organic diseases. These causes should be determined and also treated. Not only the head itself, but the spine, neck cord, and stomach should be treated with High Frequency, depending upon the cause, of which a headache is the symptom.

Nervous Affections—Numerous cases of nervous exhaustion have ben reported cured by High Frequency. The general systemic treatment through the metal electrode, held in the hand, is quieting and relieves nerve tension.

Ozone inhaled is a very desirable adjunct. The great nerves of spine and neck should also be treated.

Piles—The insulated electrode should be used. High Frequency current has proved most efficacious, whether used alone or in connection with some other remedy.

Prostatic Diseases—The results following the high frequency treatment of all forms of prostatic diseases are extraordinary. Authorities report complete cures in a very large percentage of cases. The vacuum tube, especially designed for such treatments, should be used.

THE APPLICATION OF

RenuLife Violet Ray

High Frequency for LAMENESS (LOCO-MOTOR ATAXIA) INFANTILE PARALYSIS LUMBAGO NEURALGIA

NEURITIS PARALYSIS RHEUMATISM SCIATICA

Infantile Paralysis-Violet Rays are so mild and gentle in action that the smallest infant may be treated without harmful results. Infantile paralysis caused by accident or disease is a natural condiaion for Violet Ray treatment. The spine, as well as muscles affected, should be treated. The opportunity to give daily treatments with our instrument makes its use especially advantageous.

Lameness (Locomotor Ataxia)-Relief and benefit follows the use of high frequency in such

Lumbago-Immediate relief follows the use of High Frequency for lumbago, which is a form of muscular rheumatism. The application should be made to the affected area with the patient changing his position often. Treatments may be taken as often as necessary and of ten minutes duration until relief is given.

Neuralgia-The old definition of neuralgia was "the cry of a starved nerve for blood." essentially indicates the use of High Frequency Violet Ray. No other agency is so useful in stimulating the circulation or bringing to the area increased blood supply. At the same time, it purifies the blood.

Neuritis-Neuritis is the inflamed condition of the nerve, causing pain. Any nerve may be involved, but frequently the nerve of shoulder and arm is affected. High Frequency is a positive relief and almost invariably a cure for this con-Treatment should be in direct contact with the skin. At first the pain may be aggravated, but the results are so satisfactory that the slight initial unpleasantness may well be borne in

Paralysis—High Frequency is a most important treatment for paralysis. Often its persistent use will restore, partially or completely, the organ, limb, or set of muscles. Regular treatments over a considerable period of time are necessary in more stubborn cases.

Rheumatism—High Frequency Violet Rays are of exceptional value in muscular and in chronic and articular rheumatism. Pain is quickly relieved. Sometimes it is necessary to continue the treatment of ten minutes' duration several times a day. Generally the treatments should be through clothing or several layers of towel in order to get the benefit of the warm sparks. Not only is the pain relieved, but high frequency furnishes elimination and nutrition demanded in such cases. The use of the Ozone Generator will be found of great value in addition to the body applications.

Sciatica—This is an affection of the nerve trunk line which runs down the thigh from hip to knee. They lie deep under the muscle and the penetrative force of the High Frequency Violet Ray reaches the irritated area and furnishes a relief

impossible to secure otherwise.

THE APPLICATION OF

RenuLife Violet Ray

High Frequency for

BRAIN FAG GOITRE INSOMNIA PAIN IN ABDOMEN AND CHEST OBESITY PYORRHEA SPRAINS TOOTHACHE WEAK EYES

Brain Fag—Brain fag is a condition just one step removed from nervous prostration. High Frequency current and Ozone accomplish remarkable results. Treatments over spine and abdominal region and back of neck have a quieting, exhilarating effect most welcome to the sufferer.

Goitre—Gratifying results are secured in many cases by the use of High Frequency Violet Ray in treating goitre. The external throat electrode is so shaped that treatment of the goitre itself can be accomplished most effectively. Daily treatments persistently kept up are required.

Insomnia—There are few cases of insomnia that cannot be cured by High Frequency currents. The back of the head, neck, eyebrows, and eyes should be treated.

Obesity—Slow but satisfactory results are secured by High Frequency Violet Ray in reducing surplus fat. The diet must be looked after and daily treatments taken.

Pain In Abdomen and Chest—High Frequency current has a remarkable pain-relieving power. Application should be made at the seat of the pain until relief comes. Actual area treated glows with the warmth and cause of irritation is removed.

Pyorrhea—Many people troubled with pyorrhea are anemic. This would indicate a necessity of treating the blood as well as a local treatment of the diseased gums. Many dentists employ High Frequency Violet Ray in their work. Not only should the gums be treated with the special dental electrodes, but we strongly recommend

that the patient take inhalations from Ozone Generator. High Frequency Violet Ray is an antiseptic as well as stimulating.

Sprains—High Frequency Violet Ray removes soreness, stiffness from sprained muscles, tends to dispel the congestion, and is the pleasant and sure relief.

Toothache—In many cases of toothache the application of Violet Ray will give immediate relief. The cause, however, should be removed. This generally requires a dentist.

Weak Eyes—Special electrodes fitting the eye lids are best used in treating the eyes. A pleasant warmth is experienced, blood is brought to the affected area and soreness disappears. Muscular deterioration is stopped and gradual return to normal condition usually results.

RENULIFE ELECTRIC CO., INC.,

6th Floor Marquette Bldg.,

DETROIT, MICH.

1304 Harperstr., Detroit, Mich.

IMPORTANT

You Must Always Hold Handle at End Nearest Cord

Holding handle near electrode end may cause a discharge of current through handle, thus detracting from current delivered for treatment through electrode.



TO INSERT OR REMOVE ELECTRODE FROM HANDLE

1st—Grasp electrode with thumb and first finger of left hand and applicator handle in right hand as shown in upper photo.

2nd—Insert electrode into handle until electrode strikes electrode holder. (Slight resistance is felt).

3rd - Press electrode firmly into place.

TO REMOVE REVERSE THE ABOVE OPERATION

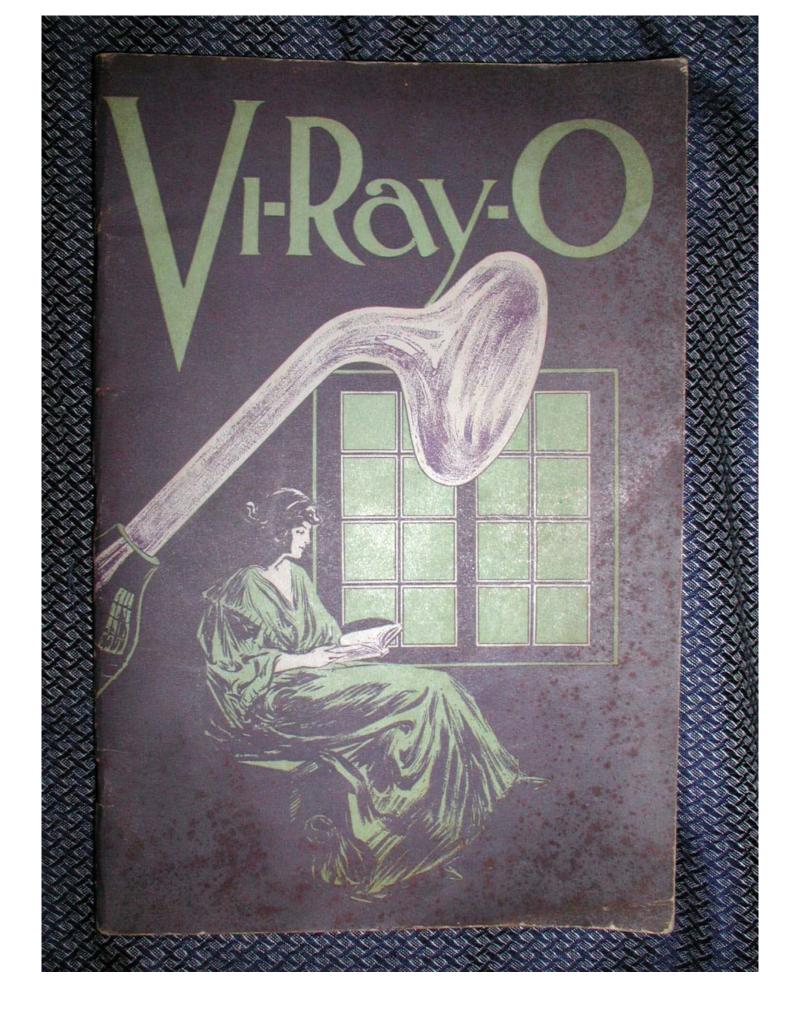
DON'T TWIST ELECTRODES
while inserting or removing
from handle

Renulife Electric Company

Michigan

Form-Jees

Detroit,





VI-RAY-O

RADIANT ELECTRIC ENERGY

FOR HEALTH, BEAUTY AND PHYSICAL STRENGTH

COPYRIGHT

WESTERN COIL COMPANY RACINE, WIS.



VIOLET RAY

This is the only complete instructive booklet on the Violet Ray High Frequency Current, written in plain non-technical language

which everybody can un-



to explain the benefits of this great natural help to personal well being, health and vigor of mind and body.

It is one of the most marvelous of the valuable gifts of nature

which science has presented to mankind. It is now used the world over by eminent scientists of the medical profession.

It is a delightfully pleasant and effective method of using the marvelous power of electricity to comfort suffering, to relieve pain, to restore health and vitality, to give strength, to retain youth and to gain beauty.

It puts a new power in your hands for the restoration of vitality and the cure of disease in cases where other measures prove useless.

The practical and simple design of our perfected Virayo, the instrument that produces the Violet Ray for all uses, places the benefit of this power within the reach of everyone.

The different ailments which yield to the Violet Ray and the conditions which are restored and improved with a success known to no other form of treatment, are described in the following pages under their respective headings.

This booklet will give you the great fund of knowledge which modern science has revealed in perfecting High Frequency instruments for the benefit of health and physical strength and for the welfare and happiness of mankind.

WESTERN COIL COMPANY

RACINE, WIS.

THE WONDERFUL DISCOVERY

The world's great inventor Nikola Tesla whose achievements in electricity have repeatedly astonished the world, is the discoverer of the Violet Ray High Frequency Current. He announced his dis-

covery in 1890. Ever since then it has been a favorite study of scientists. It now proves to be of the greatest importance to medicine and its relation to life.

Violet Ray High Frequency Current takes its name from the fact that it produces a radiant beautiful Violet glow and alternates with almost immeasurable frequency. The beautiful glow within the vacuum glass applicator is produced by electrified gaseous particles. The alternations are so rapid that they often exceed a million repetitions in a second.



PLEASANT AND REFRESHING

When the electrical current undergoes this change in the Virayo it exerts its influence without the unpleasant sensation that usually accompanies the use of an ordinary electric current from so-called medical batteries. It is pleasant and wonderfully refreshing.

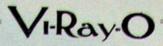
The Violet Ray may be described as a current stopping and starting with great rapidity and in this way producing an electrical vibration.

The amount of current used in the Virayo instrument is extremely small and the electric pressure when converted into Violet Rays is very great.

To use electrical terms in describing the Violet Ray, the voltage is greatly increased in comparison with the amperage while the alternations are multiplied in a most remarkable degree.

NEW CURATIVE POWER

When the discovery of High Frequency was announced nearly 26 years ago it immediately attracted the attention of medical scientits as well as the world's great electricians. It revealed, at last, a method of applying values in electricity to curative purposes in a



more effective manner than ever before. At the same time it offered a means of using electricity in a pleasing and agreeable way.

APPRECIATED BY SCIENTISTS

While the medical profession was interested in the Violet Ray High Frequency Current from the day its discovery was an-



nounced, suitable instruments for producing it were not then at hand. The original Violet Ray instruments were too big and too expensive. The benefits of the Violet Ray were confined to the few who could afford it. The value of the Violet Ray to mankind was fully appreciated by the great minds of the scientists. They realized that it must be put within the reach of the suffering thousands everywhere.

Every claim for the Violet Ray made by great medical scientists was put to the rigid test of science. So wonderful, indeed, were the things claimed for this new discovery that people at that time doubted them.

It was said it would purify air by creating ozone. This was too wonderful to believe at first. In fact, some of the most eminent of the world's scientists spent years in experimenting before they would acknowledge that the Violet Ray generated ozone. They went further than that when the proof was all at hand and announced that it would drive ozone into the human body and invigorate the vital organs, the nerves and tissues by killing disease germs and restoring health.

RESTORES YOUTH AND BEAUTY

It was said that the Violet Ray would produce results in restoring youth and beauty. For twenty years this claim was put to the test. Scientists in all the advanced civilized countries took up these claims. They kept the results of their experiments from the public for years. It was not until years afterwards that this claim which so many doubted was finally acknowledged to be true.

About twenty years ago prominent physicians began to treat patients with Violet Rays. At first they treated only a small list of ailments and diseases. In practically every case they found benefi-

cial results. These results were reported to the medical profession and the list of ailments treated with benefit was gradually increased. Now this list contains more than two hundred diseases and ailments for which physicians recommend Violet Rays.

EASY TO USE

The Virayo is so handy, so simple and easily and quickly used



that its full benefits can always be had. It can be used with great success in the case of scores of ailments and treatments of only one to five minutes.

The busiest man can find time to use the Virayo.

The discovery of the marvelous Violet Ray will always be regarded as one of the greatest achievements of modern science.

WORK FOR HUMANITY

Some of the world's most eminent men of science gave years of study to the Violet Ray. Among them were: D'Arsonval, Monnell, Strong, Snow, Eberhart, Neisswanger and Judd.

The experimental work done by these great men of science and the research they made was for the benefit of humanity. Now years after their work is completed the public is learning for the first time how much humanity is indebted to them.

WONDERFUL ACHIEVEMENT

Medical reports today abound in articles on the Violet Ray. Every disease and ailment shown in the list given in this book is the subject of medical literature. Physicians know the power and value of Violet Ray and recommend its use even in cases which otherwise would be regarded as incurable.

The next great step in the development of the Violet Ray after completing the proof of its value to humanity was the perfection of the Virayo. Physicians welcomed the Virayo as a perfected instru-

ment for producing the marvelous rays. The simplicity of design of the Virayo and the fact that anybody can use it the first time he sees it makes it the ideal instrument which physicians were glad to recommend for personal use and for general home use. There is almost daily need in nearly every family for the use of Violet Ray. It is so effective in warding off attacks when the first symptoms are noticed that in some seasons of the year its need is very frequent.

VIOLET RAYS AND LIFE

All in nature is motion—action and reaction, ebb and flow. Motion is the primal indication of life. Forms of force such as light, heat, magnetism, etc., are fundamentally electrical vibrations.

The universe as a whole exemplifies only the varied expressions of one single principle, vibration, electrical in its origin.

Our modern system of philosophy connects the different branches of physical science into a glorious harmony. Today we can see and trace the various manifestations of nature to one common origin. In all forces, from the attraction of our planet to the sun to the vital phenomena of the human organism we have fundamentally electrical vibrations.

The Violet Ray High Frequency Current is a natural electrical vibration produced in an artificial manner. It has a close relation to the currents which traverse our nerves in the maintenance of life. The different nerve centers and different cells of our body are tuned to impressions of different wave lengths, as in wireless telegraphy a tuned receiver will respond only to a similarly tuned impulse.

THE RAY OF LIFE

Vital force and electricity are in reality identical. Human beings sustain their marvelous toil only under an electrical drive. Electricity and life are one. The Violet Ray High Frequency Current has therefore been truly called the life giving ray, THE RAY OF LIFE. Light is the life-giver. It vitalizes, animates, creates. Light is energy.

The continuance of all life according to modern views is only possible by the radiant energy which we receive from the sun. From time immemorial its beneficial influence upon life has been recognized. At the present time we realize more than ever its full value. Radiant energy in the form of the VIOLET RAY HIGH FREQUENCY CURRENT is light and electricity combined which aids every vital function and quickens every cell in our body.

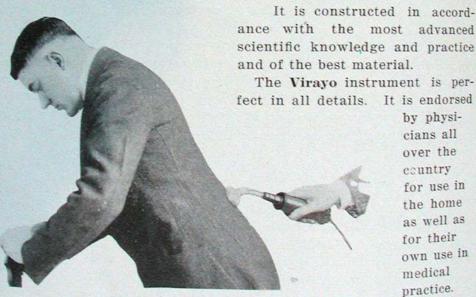
Violet Rays supply our proper need of electricity when our natural supply is impaired. The use of the Violet Ray High Frequency Current until now has been limited. Heretofore it could be produced only by expensive instruments of comparatively large size which were difficult to understand and complicated to operate. The mechanical and electrical problems of manufacture have been solved by the WESTERN COIL CO. The small simple Virayo for the production and delivery of Violet Ray High Frequency Current for all curative needs is acknowledged as the perfected instrument.

PRACTICAL AND RELIABLE

The Virayo is the first reliable and practical small portable instrument for home use. It is now within your reach at a small price.

The wonderful Virayo can be operated by anyone because it is so simple in construction. It connects to any lamp socket, either alternating or direct current.

It can be operated by a child as well as an adult.



Lumbago Treatment.

WONDERS OF THE VIOLET RAY

The Violet Ray High Frequency Current is applied in treatments through vacuum electrodes made of annealed glass. These electrodes or applicators diffuse the current. They are excited to a beautiful deep red and violet color by the High Frequency Electric-

ity. The discharge from the glass applicator appears to the naked eye often as a single spark. It is in reality made up of a great number of successive sparks which vibrate to and fro or oscillate as it is technically termed.

These rapid oscillations running into the hundred thousands and sometimes millions per second, produce the following phenomena:

FIRST: They make the VIOLET RAY HIGH FREQUENCY CURRENT Uni-Polar, that means the current is applied from one pole. All other forms of electricity need a complete circuit between two poles.

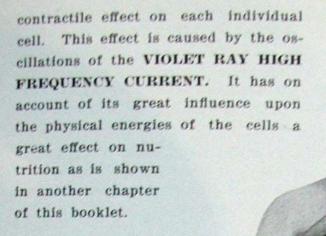
SECOND: They traverse space in the form of ether waves similar to those electrical vibrations used in wireless telegraphy and wireless telephony. You may observe an electrode to emit light at a distance of several feet from a charged person. This is demonstrated in the following manner:

Attach the metal electrode No. 28 to the VIRAYO instrument and turn the current on. Keep the electrode in one hand. Approach any vacuum applicator with the other hand. It will then begin to glow though not in direct connection with the source of current itself. This experiment is best demonstrated in a somewhat darkened room.

THIRD: VIOLET RAYS penetrate easily all substances including those known as non-conductors or insulators. Paper, hard rubber, glass, wood are no obstacles to the VIOLET RAY HIGH FREQUENCY CURRENT.

FOURTH: VIOLET RAYS ozonize the surrounding air. That is, the VIOLET RAY HIGH FREQUENCY CURRENT will convert the oxygen in the air into ozone. Ozone is only a concentrated form of oxygen. Oxygen is the first essential to life. Man is a breathing engine. Oxygen is the fuel for this engine. The fuel is supplied by breathing, thus taking in the oxygen in the air. We say that air is fresh or invigorating when it has a noticeable quantity of oxygen in it which gives it its quality of ozone. The pure and refreshing smell of ozone is unmistakable and easily recognized as soon as the VIRAYO instrument is set in operation. This beneficial element is driven by the VIOLET RAYS into the tissue and reaches the blood. This process is of great importance and will be found described in a later chapter.

FIFTH: VIOLET RAYS produce a cellular massage. Our body is composed of cells. The cellular massage is produced by the



General Body Massage.

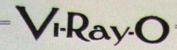
SIXTH: VIOLET RAYS are pleasant to everybody even to the most sensitive persons. They do not cause any pain or muscular



Treating Goitre and Throat Trouble.

contraction or disagreeable sensation of any sort. The reason for this is that our sensory nervous system cannot respond to the marvelously fast oscillations of the VIOLET RAY HIGH FRE-QUENCY CURRENT.

It is equally true that our eyes are not capable of seeing all light rays that exist, as for instance, the infra-red or heat rays or the Ultra-Violet or chemical rays, and that our ears cannot hear sound waves of too high a pitch. It is thus that our sensory nerves do not comprehend the electrical vibrations of the HIGH FREQUENCY CURRENT and in consequence a pleasing sensation is given by the Violet Ray treatment.



NO SHOCKS—NO PAIN

Shocks as they are well known from so-called medical batteries are impossible with the VIOLET RAY HIGH FREQUENCY CURRENT. The VIOLET RAY HIGH FREQUENCY CURRENT can be applied to the most sensitive parts and organs of the body, as for instance, the eyes. There is not the least danger connected with the use of the VIRAYO instrument, nor are habits developed by the constant use of it.

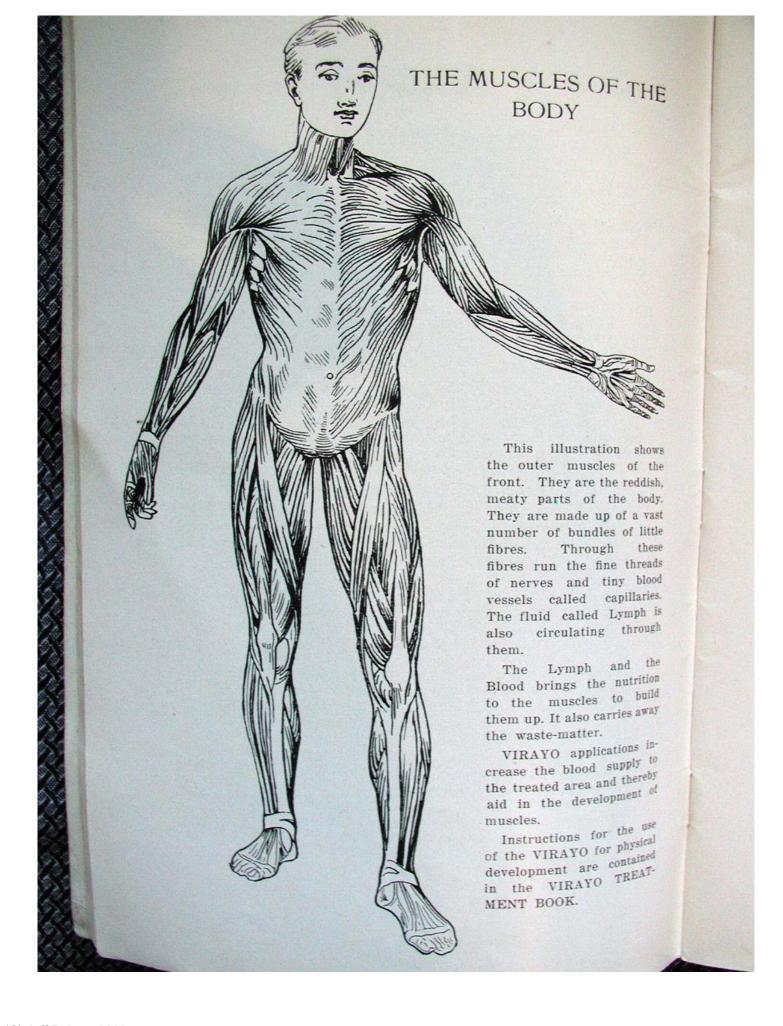
THE VIRAYO ATOMIZES ELECTRIC CURRENT

The VIRAYO HIGH FREQUENCY GENERATOR is an electrical transforming device. It converts the thick flow of electric current into a discharge of mist-like electric energy. Just as a thick and forceful stream of water coming from a hydrant is changed into a fine spray for sprinkling flower gardens, so is the heavy electric current as it comes from the lamp or wall socket in your house too heavy and strong to apply to your sensitive nerves and cells until it is converted into VIOLET RAYS.

The VIRAYO instrument is the modern scientific means of supplying the nerves and cells of our body with atomized radiant electrical energy. It feeds your nerves with vitalizing electricity.

GENERAL BENEFIT OF THE VIOLET RAY

The energies and capabilities which manifest themselves in the VIOLET RAY HIGH FREQUENCY CURRENT are apparent and recognized by all medical authorities. Their value in acute and chronic conditions in more than 200 different human ailments has become so marked that the mere acquaintance with the results obtained by others prompts the desire to employ them by all. Violet Rays reinvigorate the nervous system. They stimulate physiological functions of the body to perform their natural duties. We have in VIOLET RAYS the closest approach to artificial vital force that so far has been produced. Treatments with the VIRAYO at home or at the doctor's office are pleasing, agreeable and most exhilarating. They give us youth, beauty, health and strength.



VIRAYO TREATMENTS

and their Influence upon the Vital Functions of your Body

A normal state of vital functions is absolutely necessary for the continuation of the sound condition of our body which is called health.

The smallest living units which modern medical science knows are the cells. Our body is composed of cells. There are millions



Relieving a Headache.

and millions of them. They form the different parts and organs of the body.

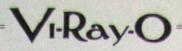
Every single cell in the body, small as it is, has life. It actually lives. It breathes as it takes in oxygen from the blood. It eats as it takes its nourishment from the chemical constituents of

the blood. It rids itself of waste material which is washed away also by the blood. These physical properties of the cells are called cell-life, and their normal activities are vital to our health. They are acted upon by VIRAYO in a most beneficial way. They respond to the stimulating effect of the HIGH FREQUENCY oscillations.

These oscillations expend upon each individual cell a contractile effect called cellular massage. The strength and vitality of each individual cell is increased by cellular massage.

By restoring the vitality or increasing the efficiency of the cells the oscillations of the VIOLET RAY restore the organs of the body to their normal power. This is reflected in improved health and greater physical vitality.

Cellular Massage can only be accomplished by electricity itself. Massage by hands and by mechanical means of so-called vibrators can not contribute to the energies of the cells; they simply act upon nature's internal resources which often are at a low ebb. In fact they make a demand upon the already weakened energies of the cells.



Electricity in the form of VIRAYO treatments, however, reinforces the energies of the cells without any reaction. They stimulate through their cellular massage without causing depression.

In a condition of profound exhaustion, and in acute or chronic diseases this property of VIRAYO treatments is valuable beyond measure. VIRAYO treatments supplement and strengthen all cell functions thereby producing a vitalizing effect.

Healthy cell life much depends on the good circulation and perfect properties of the blood.

VIRAYO treatments act upon the blood itself and its circulation through the entire system.

IMPROVES THE BLOOD

The blood stream conveys the required nutriment to all cells in all parts of the body. Pure blood makes us immune to disease. It is only when the blood is impure that we are in danger from disease. VIRAYO treatments ozonize and purify the blood. Ozone or concentrated oxygen can be told by its odor as soon as the treatment with the VIRAYO begins. Whenever the VIOLET RAY HIGH FREQUENCY CURRENT passes through the air it produces the life giving ozone.

Ozone is nature's marvelous germicide. It attacks germs and bacteria. Particles of this antiseptic or germ destroying ozone are driven through the skin into the blood and then carried through the entire system by the blood. This process is called ozonization.

Ozonization of the blood by VIRAYO applications shows besides its decided germicidal action an increase in the number of red blood corpuscles. These are solid particles which show a strong affinity for oxygen. When they decrease in their number we become anaemic, the usual symptoms of which are paleness, weakness, general loss of vitality.

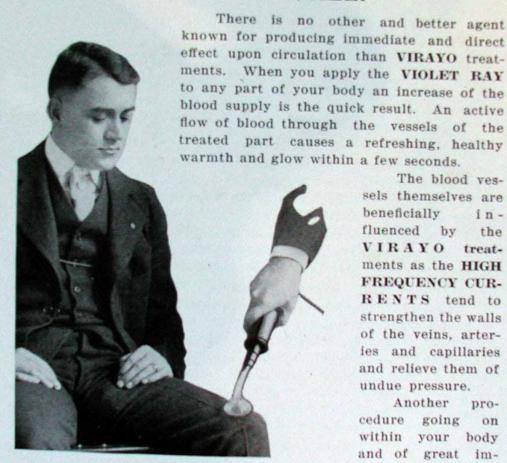
Anaemia is a dangerous state of the blood which opens the door to functional troubles and disease. We can successfully counteract such subnormal state of the blood by VIRAYO treatments. It is a great merit of the VIOLET RAY HIGH FREQUENCY CURRENT that it helps clear the impeded channels of absorption and enables other blood foods to reach their destination and fulfill their proper mission.

In diseased conditions you can restore the impaired qualities of the blood to the normal state by increasing the bacteria-killing action of the blood through ozonization. You increase your vital resistance and fortify yourself against infections.

It has been estimated from medical statistics that nine-tenths of all acute diseases result from initial poverty of the blood and improper circulation.

If the movement of the blood is interfered with a local or general disturbance in your health is the result.

NO BETTER HELP



Application for Rheumatism of Knee. steadily taking place in living tissue.

The blood vessels themselves are beneficially influenced by the VIRAYO treatments as the HIGH FREQUENCY CUR-RENTS tend to strengthen the walls of the veins, arteries and capillaries and relieve them of undue pressure.

Another procedure going on within your body and of great importance is the chemical exchange

All activity depends on the proper assimilation and distribution of the chemical compound which you take in in the form of food. The chemical combustion of food strengthens us. It replaces the minute portions which are wearing away or which are destroyed in

the course of normal activity.

PROMOTES METABOLISM

Chemical combustion furnishes us with new energy and maintains an equilibrium necessary in order to live. This capability of your body to distribute and assimilate foods properly and to re-arrange the smallest particles of living matter is called "metabolism."

Your being well, your health, depends upon your metabolism. Improper metabolism causes diabetes, characterized by the presence of sugar in the blood and urine. It causes gout, characterized by the presence of insoluble uric acid in the tissues. It causes obesity and many other diseases.

VIRAYO treatments act most beneficially upon metabolism in whatever form the treatments may be taken. They accelerate the organic changes and the combustion which takes place within your cells.

Ailments which are due to slackening of nutrition (faulty metabolism) are therefore relieved by VIRAYO TREATMENTS.

They promote metabolism in its completeness and also help to eliminate more thoroughly waste.

They assist the sweat glands, the kidneys and the liver in their proper activity.

Metabolism is indeed very closely connected with digestion. Impaired digestion known as dyspepsia, indigestion, catarrh of the stomach and other diseases of the digestive tract respond to VIRAYO treatments and are treated under separate headings.

VIRAYO treatments have also a marked effect upon respiration. Whenever the instrument is set in operation the ozone developed during the application causes an immediate tendency to take a deep and full breath. You will breathe with more than ordinary satisfaction during or after a VIRAYO treatment. This increased activity in the process of respiration will cause you to take a greater amount of oxygen into your lungs by breathing.

The general effect of VIRAYO treatments upon all the vital functions of your body is a strong tonic action. They stimulate without reaction.

They add energy to the energy which the body must keep up in a potential form and which may be used as needed in all the processes of the vital functions.

HELPS THE NERVOUS SYSTEM

As vital functions of your body are more or less controlled by nerves it is extremely important to know that VIRAYO treatments will increase the functional power of your nervous system.

The nervous system consists chiefly of the brain, the spinal cord and branches of these two. Nerves go to every part of the body. The one purpose of the nerves is to carry sensations such as feeling and so on from the body to the brain. The other to transmit impulses as for instance motion from the brain to parts or organs of the body.

The nerves also supersede the work of the blood vessels in rebuilding the cells and removing waste. However, their action is accomplished unconsciously. The nerves of sense are directly connected from the brain itself with the eyes, ears, nose and tongue.

From the spinal cord which is concealed within the vertebrae or bones of the spine the nerves branch out at each side. They do not run straight to the various parts or organs of the body but unite in groups and form the centers of reflexes or the

sympathetic systems. By treating the different nerve centers with the VIRAYO you can exert an influence upon the organ controlled by them. (See Page 49.)

RELIEVES AND CURES

It is one of the most striking effects that the VIOLET RAY HIGH FREQUENCY CUR-RENT will almost immediately relieve and later permanently cure cases of long standing nervous dyspepsia and constipation if applied over the abdomen.

People whose hands and feet had been cold and numb for months react immediately to VIRAYO treatments. The flesh and nails become pink again, sensation returns and a pleasant glow fills the entire body.



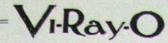
Relieving the Pain of an Aching Corn.

VIRAYO treatments have a soothing tonic effect on the complete nervous system. They exert a calming influence upon the excitability of your nerves. The results of these effects can readily be observed in the response of glands which your nerves control. It may be noted in secretion, in metabolism and in the perspiration which ensues by application to certain parts of the body.

VIRAYO treatments carry into the nervous system a potential energy which reinforces the vitality of your nerves.

VIOLET RAYS present an electrical food to your nerves.

All nerves including the spinal cord, exhibit an electric cur-



rent as has been demonstrated by science. In the brain itself occur electromotive changes during its activity. In fact all processes of nature are identified with electrical manifestations.

RESULTS OF VIRAYO TREATMENTS

When you apply the VIRAYO directly or indirectly, either as a sedative or as a stimulant you obtain a powerful tonic to all nerves.

It tones nerve centers and the nerve endings and all nerve functions, the muscular fibres and blood vessels and capillaries and the force of the heart.

It gives an ozonizing tonic to the blood and increases the number of red corpuscles in the blood.

It is a promoter of the metabolic exchanges, a tonic to the energies of respiration, a destroyer of uric acid, a tonic to the completion of combustion in the tissues and the production of heat energy and the maintenance of normal temperature.

It is a tonic to the secretion of glands and the excretory functions of all organs of the body and to the skin, and a tonic to appetite.

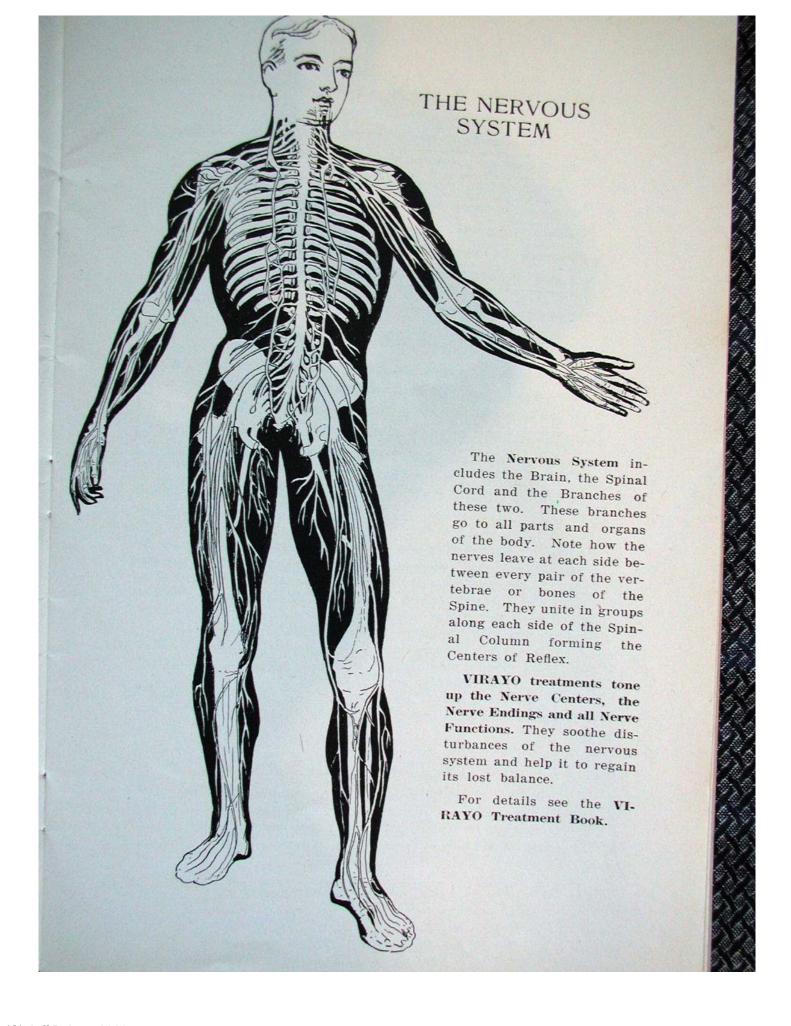
It fills you with the radiant energy which increases your vitality—your efficiency.

It is a natural foe of disease.

GENERAL EFFECT OF VIRAYO APPLICATIONS

The effects of VIRAYO treatments are lasting. Wherever the vital force of the human system is depleted, the VIRAYO treatment will be of great help and produce definite curative results.

Unlike the usual effect of medicines VIRAYO treatments do not produce any by-effects. They do not develop habits. The need for treatments decrease instead of increase. By their action upon metabolism, nutrition and circulation and by their general stimulation of vital functions they increase the enduring efficiency of the human body.



The beneficial effects which result from VIRAYO treatments are: refreshing sleep, soothing effect on the nervous system, increase of strength and vital energy, increase in cheerfulness and power for work, improvement in appetite, digestion, nutrition and metabolism, increase of secretions, general progressive improvements and betterment of all the functions of the body.

TREATMENT BOOK

The treatment book which contains charts and full directions is furnished with each instrument. It gives detailed information about the use of the different applicators. It tells exactly how and where to apply the Violet Ray.

VIRAYO TREATMENTS AND TISSUE RESISTANCE

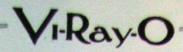
An all important result of VIRAYO treatments is the increase of the normal resisting power of the healthy tissue of your body. It increases your tissue resistance against exposure and all the outside influences which cause infection and disease. As long as you keep your tissue resistance at normal, your organs, blood, etc., are practically proof against sickness and disease.

VIRAYO is a preventive as well as a cure of sickness. When your tissue resistance falls below normal you can promptly restore its normal energies with VIRAYO treatments.

Whenever an attack of some sort threatens you, VIRAYO treatments should be used immediately to prevent serious sickness.

SIMPLICITY OF OPERATION

VIRAYO applications are extremely simple. The minute you receive the instrument you can use it for its good effects. A child to connect it and how to operate it go with each outfit.



PREVENTIVE VIRAYO TREATMENTS

A vigorous tonic dosage of VIRAYO current applied to the nerve centers of the spine does wonders as a preventive. A strong spray

should also be applied over the abdomen, over the region of the stomach and the liver. Finish this preventive treatment with a stimulating a p lic ation over the chest and take ozone inhalations for a few minutes with the Western Coil Co. Ozone Generator.

It is surprising how quick the benefits of such an application become noticeable, in fact there is no other agent known which will so decisively and quickly reinvigorate your system and restore your resistance power to normal. Do not be afraid of overdoing this treatment; it can be repeated any time according to the state of feeling.



Painful Shoulder is Quickly Relieved.

DESIGNED FOR HOME USE

The VIRAYO has been especially designed for home use. It is the product of over four years of hard work and experimentation.

It is a reliable article, perfect in all details of construction. It is the most efficient Violet Ray Machine made today, capable of actually giving the current output necessary to obtain satisfying results.

Many thousands of them are on the market. They are used in Hospitals. The construction of the machine is so simple that anyone can operate it. A little knob at the back end of the instrument controls the current. You can obtain any desired strength of the Violet Ray, from a mild, soothing glow to a powerful stimulating spray of high frequency sparks. Simply turn the knob. To increase the current turn to the right, to decrease turn to the left. The VIRAYO attaches to any electric light socket, either alternating or

direct current. It is made for any voltage. The simplicity and ease of operation, its readiness at all times, permit any one to obtain most gratifying results within a surprisingly short time.

HOME TREATMENTS

It is exceedingly important to realize that you can take treatments right at your own home. With the aid of our directions and the treatment book it is a simple matter to take and give Violet Ray applications. You need not be an electrical expert to understand the operation of the instrument. Nor will you need a great medical knowledge for the proper use of the Violet Ray. Just use common sense and follow our instructions.

IN THE COUNTRY

and other places where there is no electric current, our battery outfit is meeting with the biggest success. This outfit receives its power from a battery contained within the box. It is very compact and simple to operate. The battery is powerful and lasts for a long time. If run down after many months it is easily renewed at a small cost. The outfit does not have to be returned to us for renewal. You are in a position to do the changing yourself. This battery outfit has proved to be a great help to doctors who desire to give treatments in homes where there is no electric current. All applicators can successfully be used in connection with this battery outfit.

DIFFERENT EFFECTS OBTAINABLE BY VIRAYO TREATMENTS

VIRAYO treatments can exert different effects according to their way of administration.

FIRST—They can be sedative or quieting. You can charge your entire body with the Violet Ray high frequency current. You can electrify yourself completely. You can calm painful sensations by sedative treatments; besides sedative action is strongly constitutional in its effect. Sedative treatments are of great benefit in all nervous ailments. They tranquillize your nerves. Sedation can be produced locally by keeping the applicator in close contact with the part to be treated. Nervous troubles are quickly and most beneficially

influenced by the sedative Virayo current. A general electrification treatment refreshes the entire nervous system.

SECOND—They can be stimulative. Stimulation is produced whenever an electrode is somewhat lifted during the application.

This stimulation is caused by the many small sparks called the High Frequency Spray. They bombard the area which they cover causing a tingling but pleasant sensation. They have a beneficial heating effect too. Besides they generate ozone. Particles of this ozone are driven right into the tissues causing the ozonization of the blood.

Stimulating VIRAYO treatments are best produced by application through the clothing or through a towel which has been put over the part to be treated. As the length of the stimulating spray depends on the thickness of the



Nothing To Equal It For Indigestion.

interposed dry resistance, that is the clothing or towel, any desired effect is obtainable. From a handkerchief to a doubled Turkish towel can be used for this purpose. The use of any kind of clothes insures a uniformity in spark length which cannot be obtained in any other way. Powdering the skin with talcum powder often suffices to create the desired dry resistance. This will at the same time allow an easy sliding of the applicator. A slight perspiration results from the treatment. If the application of talcum powder is not desirable the use of W. C. Co. Lubricant is recommended.

Stimulating treatments through clothing find a profound use in rheumatism, lumbago, partial paralysis, etc. Slight stimulation is also sometimes desired in skin troubles where the blood circulation is impaired. A single layer of a handkerchief presents enough resistance in such a case. Chronic rheumatic troubles however may require the use of several layers, at least two of a turkish towel.

Long sprays from the VIRAYO will cause a counter irritation. Counter irritation relieves wonderfully quick pains of many sorts. It is often the very welcome means to kill the dreadful pain of a sud-

den toothache. You will appreciate this pain relieving quality of the VIRAYO in sprains, bruises, etc. Counter irritating VIRAYO applications are better, swifter, and more effective than plasters and linements. In fact they replace them entirely. Stimulating VIRAYO treatments are long lasting in their effects. They are not like drugs or a glass of wine because they are not followed by a reaction. They do not create any habits.

THE DIFFERENT WAYS OF TAKING TREATMENTS

VIRAYO applications do not have to be of long duration. Comparatively short treatments repeated at convenience are very effective.

FIRST—Local applications. They are taken or given with anyone of the specific surface or orificial applicators made for the purpose.

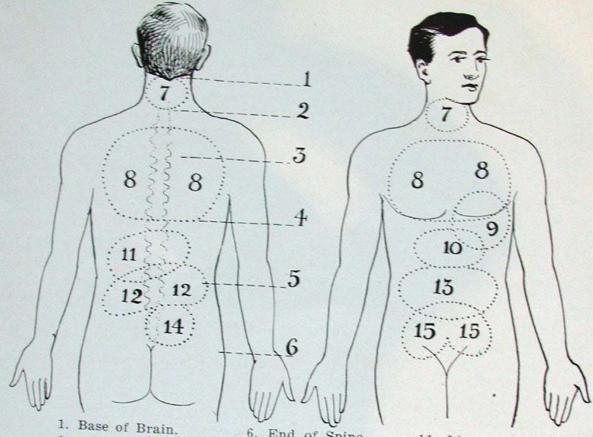
SECOND—General application. They are taken as so-called electrification treatment for the effect on your general c on dition. You charge your entire body with electric

Treating an Ear-Ache and Catarrhal Deafness.

an applicator in one or both hands. The effect thus obtained is se-

THIRD—Indirect application. The indirect method of applying VIRAYO current combines the local and general method of treatment. It requires two people. The party to be treated holds the instrument with attached applicator. The second party then draws with either hand, finger-tips or another electrode the high frequency current to the desired spot of the patient's body. In this way a combination treatment is accomplished as the electric cellular massage of the high frequency current can be successfully combined with the mechanical massage of the operators hands or fingers. This agreeable way of administering Violet Rays to the eyes for instance. Without discomfort by the indirect method. For the removal of warts, moles, etc., the indirect method is ideal.

THE VITAL ORGANS



- 2. Center of Neck.
- 3. Middle of Shoulder.
- 4. Middle of Back.
- 5. Hips.

- 6. End of Spine.
- 7. Neck and Throat.
- 8. Lungs.
- 9. Heart.
- 10. Stomach.
- 11. Liver.
- 12. Kidneys.
- 13. Bowels.
- 14. Spleen.
- 15. Loins.

The physiologic-medical properties of the Violet Ray High Frequency Current are of general benefit to all the vital organs of the body. VIRAYO applications represent a great aid toward improvement in the functions of these important organs. They increase the elimination of all poisonous products from them. They vitalize them in general. They flush the blood through all the capillaries, open the sweat-glands, relieve congestion and cause a general sensation of warmth and well-being. We obtain with Violet Rays a general systemic vitalization, which we can not obtain by any other agent.





Removing a Wart.

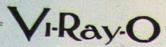
ABOUT FULGURATION

There is still another method of application for the Violet Ray termed technically as Fulguration. By this process is meant the application of the high frequency spray to diseased growths, warts, moles, naevi, etc., for the purpose of removal.

No bleeding results by using the Fulguration method for removal of tissue. It is therefore ideal. It is not painful and by applying it the indirect way no disagreeable sensation is felt.

NERVOUSNESS

Derangement or disturbance of the nervous system in the present days of "hustle" are common. We speak of nervousness as something very familiar. Most of all civilized men have a touch of nervousness. Especially Americans. Our intense striving at work and at play which characterizes us, has brought about the modern nervous condition called so conveniently "AMERICANITIS." Americanitis is the common form of Neurasthenia. Excitement in business and social life, worry, overwork, neglect of our own self in regard to eating and rest are much to blame for the causes of Neurasthenia.



NEURASTHENIA

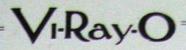
Neurasthenia also called nervous debility, nervous prostration, is a depression due to exhaustion of nerve energy. In fact all symptoms resulting from some functional disorder of the nervous system with severe depression of the vital forces are combined under the comprehensive name of Neurasthenia. Neurasthenics have the tendency to fatigue easily, lack energy, have little power for work, feel pains of vague character, have an impaired memory, little sleep and

no appetite, suffer from constipation, etc. Sometimes the whole body is affected: sometimes the indications are limited to a certain part as the brain, the abdomen, the sexual organs, etc. While Neurasthenia in its early stage does not appear as a disease grave enough to require attention but merely as a nuisance, it should not be neglected. The conquences of neglect are far reaching. A downward drifting health due to Neurathenia may mean physical wreckage, hypochondria. suicide or insanity in the end. The best cure Neurasthenia is a series of early VIRAYO treatments. General electrification helpful, but the administration of the VIRAYO current



Making the Touch of Lumbago Disappear.

to the chief nerve centers is more important. Spinal applications to the whole length of the spine from the middle of the shoulder down to the end of the spine act sedative-tonic. A few of such applications do wonders. They should be assisted by a short treatment over the abdomen and over the liver. If headaches accompany the symptoms of Neurasthenia treat the area where it occurs or any other seat of pain. If any muscles or joints are affected by painful sensations they should also be included in the treatment. Each treatment for Neurasthenia should be as thorough as possible. Ozone treatments with the W. C. Co. Ozone Generator are of additional help in any nervous



condition. It should be said here that all drugs and so-called remedies for nervousness do little good, if any at all. With VIRAYO applications and Ozone treatments we can support nature with the resources of a physiologic stimulus.

NEURITIS

Neuritis is an inflamed condition of the nerves. Any nerve can be affected. Pain and tenderness extend usually over the whole diseased nerve trunk. VIRAYO applications will cure neuritis positively. A mild current should be used at first, and the electrode kept in close contact with the body moving it lightly without pressure over the affected area.

In some cases an increase of the pain may be noted at the beginning of the treatment. However, this state is soon overcome. Then a more powerful spray in form of a stimulation can be applied.

NEURALGIA

Neuralgia is the definition of a pain caused by a starved nerve and its cry for food. VIRAYO treatments quickly relieve neuralgic

pains. Neuralgia can appear at very many and different places and we know today of facial neuralgia, ovarian neuralgia, neuralgia of the large nerve of the thigh, between hip and knee, also known as sciatica, etc. VIRAYO treatments stimulate the blood circulation and in this manner supply the nerves with new food.



and in this manner supply the nerves with new food help for your voice.

In all nervous troubles VIRAYO applications offer help which cannot come from any other natural source without harming or aggravating the condition of the sufferer. The Violet Ray stimulates the work of every organ to which it is applied and by its tonic effect urges the rebuilding of worn tissue. Nerves reach to every part of the body and therefore in all nervous troubles Violet Rays should not be confined to the seat of pain but extend to the great nerve center, the spine, the digestive organs and the excretory organs. Considering that the stomach and other digestive organs including the intestines have to furnish the necessary nutrition for our nerves from food we must see that our digestion is as perfect as possible.

We also must carefully avoid the accumulation of waste in our body. Toxins or waste matter will poison our nerve cells. We can readily see that the cause of many nervous troubles is not to be found in the nervous system itself, but outside of it. The greatest beneficial influence which we receive from VIRAYO treatments is its tendency to promote metabolism as has been explained before at length. Perfect metabolism will give us perfect nerves and intelligent VIRAYO treatments are the best means which science has yet found to establish a sound metabolism. All nervousness can be overcome if we use VIRAYO treatments as first resort.

Do not imagine that you are too nervous for VIRAYO treatments. Violet Rays are tranquilizing and soothing even to the most sensitive nervous system. There are no shocks or pains.

SCIATICA

Sciatica is an affection of the great sciatic nerve trunk. Its cause is found in neuralgia and also sometimes in rheumatism. The

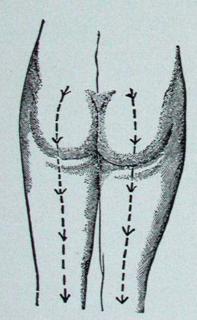


Illustration
Showing the Location of the
Great Sciatic Nerves

sciatic nerves run down the thigh from hip to knee. They lie near the bones deep under the heavy muscles. Sometimes they become so inflamed and tender that even the slightest pressure causes an extreme pain. A counter irritating discharge applied through the clothing or over the painful area will bring quick relief.

RHEUMATISM

Rheumatic conditions in whatever form they may appear are some of the most painful and annoying ailments. There are many theories evolved regarding their cause, but none of them is universally convincing to all scientists. Uric acid in the blood and deposited in the tissues under certain conditions is without question responsible for many of the rheumatic troubles.

Uric acid also causes gout, and other ills. But no matter what the cause of rheumatism in all its phases may be we know that drugs will have little value in relieving it. One of the most common

forms of rheumatism is the kind called muscular. It often affects the lumbar region of the back and is then called lumbago.

If it attacks the cervical muscle it is commonly spoken of as Stiff Neck or Wry-Neck.

Rheumatism can be acute or chronic. Acute rheumatism, rheumatic fever, inflammatory rheumatism, or whatever name the typical rheumatic attack may be called comes on very suddenly. Inasmuch as rheumatic conditions, even though they may be accompanied by fever are very seldom detrimental, they are likely to cause a weakening of the whole body or a deformation of some vital organ as for instance the heart.

All the different forms of rheumatism, acute or chronic will respond to VIRAYO treatments. Despite the tenderness of some rheumatic parts or swollen joints, the Violet Ray does not hurt and is the best agent known today to relieve the suffering of the dreadful pains.



Helping the Painful Knee and Restoring Knee Movement.

Lumbago, stiffneck, a painful shoulder cease to exist almost instantly after a VIRAYO application. In only a few minutes we can banish stiffness, aches and impeded movement.

In Chronic rheumatic conditions full benefit can be had by repeated VIRAYO applications. While relief will be felt already after the first treatment, a decisive cure can be expected in the prolonged use of the Violet Ray. The Violet Ray, its beneficial heat, its slight but effective counter irritation, its stimulating action on blood circulation is a definite swift and decisive curative remedy for all rheumatic conditions. dates are driven back into circulation, the impaired blood vessels lose their congestion and the pressures which give rise to pain will cease. You will feel comfortable and well again after a few VIRAYO applications.

The best way to cure rheumatism is to treat the affected part frequently. The current should be mild in cases where severe tenderness of swollen joints prevent the use of a

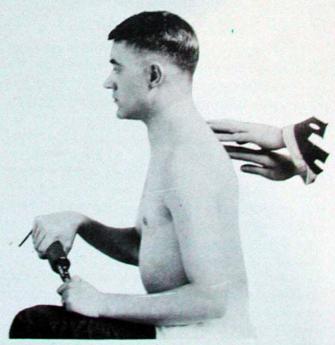
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sharp high frequency spray. In lumbago, stiff neck, etc., a counterirritating application through the clothing or a turkish towel proves most effective. Pain which is caused by straining the muscles disappears during the treatment. Treatments over the abdomen and up and down the spine in rheumatic and gouty conditions are also he!pful. Uric acid and other poisons which cause the trouble and are accumulated in our system are through the beneficial action of the high frequency current loosened up. Poor circulation is stimulated and soon are the foreign substances carried off by a better circulation of the blood. The fact that VIRAYO applications eliminate waste in such remarkable degree is of important value. The ozone which is driven into the tissue and received by the blood increases its purifying qualities and helps to dissolve the waste matter until it is sent out of the body.

PARALYSIS

For muscular paralysis there is no more effective and more satisfactory treatment known than the VIRAYO. We know that the dif-

rent members of the body are controlled by the brain. If by some injury or otherwise a pressure is exerted on the brain or on the spinal chord the nerves leading to certain parts are interrered with and as a result paralysis appears. Sometimes complete loss of motion and feeling in a part of the body is resultant High frequency currents are of greater benefit in such cases than any other remedy known to science. VIRAYO applications to the



A Spinal Application by the Indirect Method.

paralyzed part bring a rich flow of blood through the vessels. The muscles which have been idle and are wasting are stimulated and re-

built and vital force is driven into the deadened nerves. Discomfort, numbness disappear quickly under the action of the Violet Ray and the paralyzed part is quickly restored to usefulness.

INFANTILE PARALYSIS

In infantile paralysis, a disease which leaves almost in every case muscles feeble and weak, if not deformed, VIRAYO treatments have accomplished wonders. Not only does the motion of paralyzed parts return more freely after a few applications but also the muscles begin to grow. Conscientious use of the VIRAYO goes a long way to help restore the sometimes terribly deformed bodies of children.

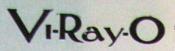
GOITRE

All forms of goitre respond successfully to VIRAYO treatments. It is surprising to learn that wherever other means have proved useless in the cure of goitre, Violet Rays have established a permanent result. A high frequency spray through a towel is applied.

OBESITY

The causes of obesity are still somewhat obscure. It is known however quite well that in all cases of obesity our system fails to help the fatty element of food to circulate properly. Supplies of nutrition which under ordinary healthy conditions are used up or sent out of the body are by obese people kept in store. Medical science tells us that the albumenous elements of food in cases of obesity are not undergoing the regular burning process in our body; they are not oxidized. Obesity therefore is to be looked upon as faulty nutrition. VIRAYO treatments are most effective in establishing a perfect nutrition by stimulating every fibre in the tissue, every nerve and blood vessel. They urge the different organs to use the nutrition for building muscles, nerves and bones. Of course a healthy diet by refraining from excesses in over-eating is essential. Constipation must be avoided under all cirmustances by VIRAYO treatments over the whole abdomen, stimulating all muscles as much as possible. General surface treatments over the whole body are a good help. They assist the skin in its activity of secretion. We can lose a great deal of waste matter by perspiration. The great excess

of fat in the body in all cases of obesity must actually be burnt up. VIRAYO treatments are the safest and quickest means to increase our blood supply to a certain area as for instance the abdomen, and when this is done we can be sure that through increased



activity of the different organs a better distribution of nutriment and reduction of the unhealthy state have to follow as a natural sequence.

INSOMNIA, THE INABILITY TO SLEEP

Insomnia or sleeplessness can have very many causes. Whatever they may be they can efficiently be removed by VIRAYO treatments. Refreshing sleep is an absolute necessity for normal health. All the sleep producing drugs in the world cannot accomplish what a few minutes of VIRAYO applications to the back of the head and neck and the forehead will do. Ozone treatments also assist nature in a great measure to restore normal capacity to rest and to sleep. Narcotic drugs should never be taken as long as nature offers us a harmless remedy in the form of the Violet Ray, because all drugs create habits and prove dangerous in the long run. They cannot help but leave some depression on their victims. High frequency currents taken as a sedative in cases of sleeplessness act on the entire nervous system. They give a restful feeling because they are constitutional in their effect. A very prominent physician says: I have cured so many aggravated and severe cases of insomnia with high frequency current that I am inclined to believe there should be no failures.

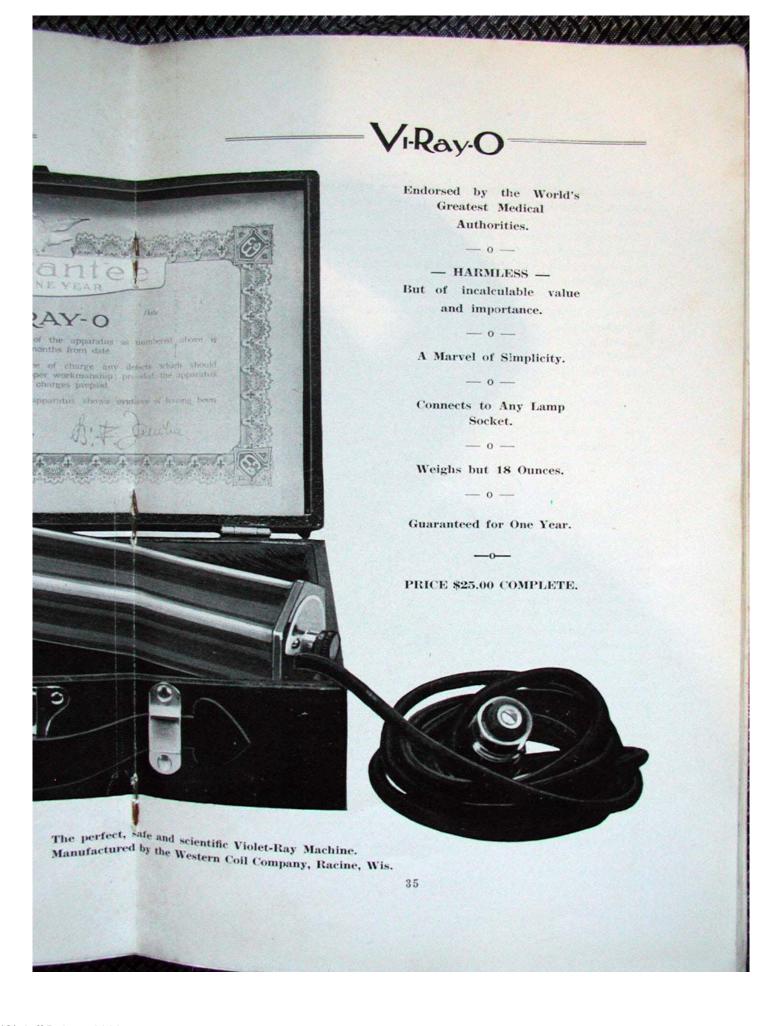
GOUT

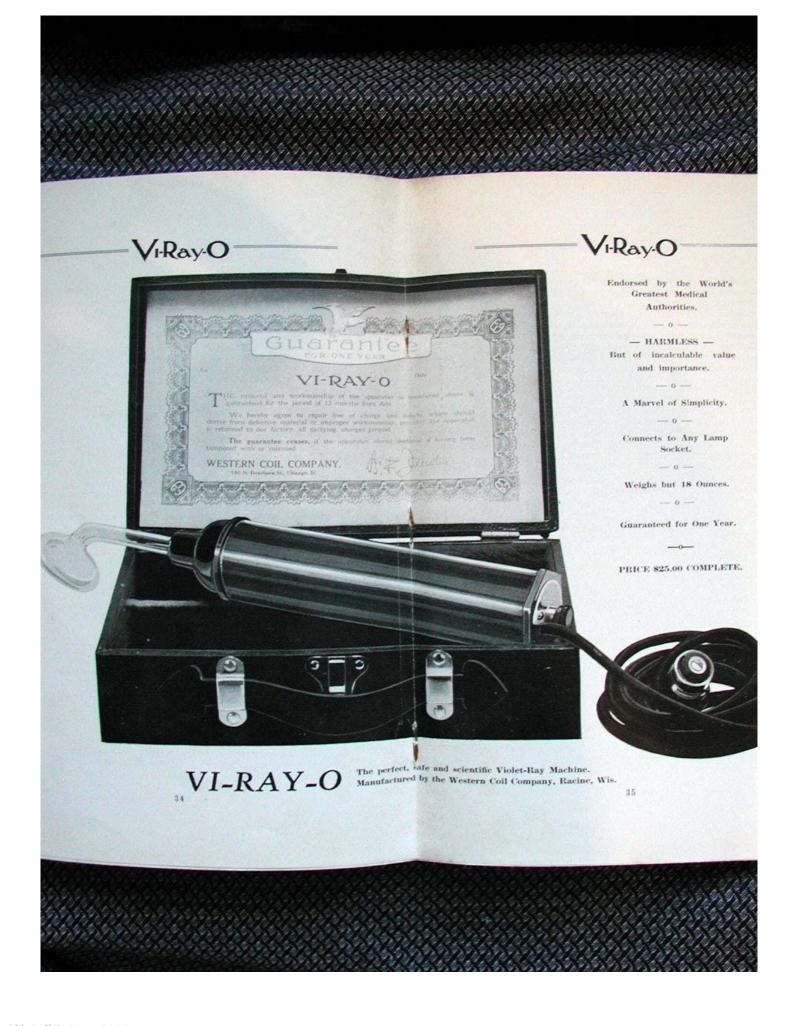
Many stout persons suffer from gout. It usually results from excessive living. The eating of rich food and drinking of much wine and liquors promote gout. Uric acid deposits at certain joints. It is quite a painful disease. The affected joint sometimes swells, looks red and is extremely sensitive. Proper diet is the best cure and preventive for Gout. VIRAYO applications to the affected part relieve gouty pain instantly and allow a free movement of the joint. At first a weak current will have to be used on account of the sensitiveness of the swollen part, later on as soon as the pain ceases, a heavier spray can be applied. The Violet Ray high frequency current certainly can accomplish wonders in a comparatively short time. The pain disappears quickly, an easy movement of the joint is possible and if general treatments are given to the spine, stomach, kidneys and liver, in addition to the local treatment, a quick general improvement in health is the result.

HEADACHES

Headaches are probably the most common form of ills. They indicate some derangement in our system and very seldom are caused by trouble in the head itself. Any disorder, as for instance, consti-







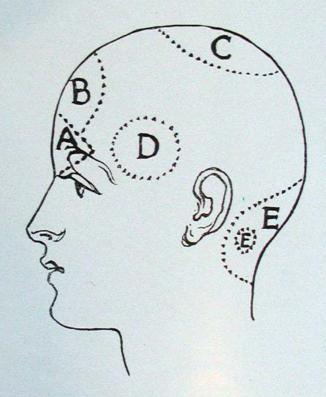
pation, indigestion, accumulation of poison, kidney trouble, ptomaines, eye-strains will cause a headache. Also excesses of many kinds, overwork, worry, etc.

Headaches can occur at different parts of the head as shown in the accompanying illustration. While the pain in the head can easily be relieved in most cases, it is also necessary to treat the underlying cause for it.

The disturbance causing it is mostly known to the sufferer or can easily be found. VIRAYO applications to the area where the

headache really is felt will relieve the ache in a short time. While this action relieves it should not be considered as a cure. It is necessary to find and treat the actual trouble itself. Often it is only rest which our overworked brain needs. good night's sleep will remedy the trouble. If, however, indigestion, liver and kidney inactivity, constipation are the real sources of headaches then this cause must be removed by proper VIRAYO treatment.

The VIRAYO will relieve the pain in the head as well as the cause of it without the additional need of medicines. Headache medicines represent only other poisons which added to those already accumulated in our system do more



WHERE HEADACHES OCCUR.

Headaches at A or B are congestive or frontal. At A they may come from errors in refraction; frontal sinus disease or nasal disease. Stomach diseases also frequently cause pain at A. Constipation A-B. Decay of front teeth A-B. Anemia; endometritis; bladder disease, C. Middle ear disease; throat disease; eye disease; decayed teeth, D-E. Womb disease; spinal irritation; nervousness, E. Ovarian reflex pains usually at C and E. Neurasthenic headaches involve the back of the neck.

According to N. M. Eherhart, M. D., Ph. D., D. C. L.

harm than good. When the system is weakened, the blood circulation impaired and poisons are not excreted in the proper way, Violet Rays are the best remedy.

VIRAYO treatments quickly control all headaches by strengthening the whole system, stimulating the blood circulation and removing the poisonous waste products. Violet Rays assist nature in a wonderful way and help it in its work to remove the waste from our body.

HAY FEVER

Hay-fever, though not a dangerous disease, is an extremely annoying ailment. It is an affection of the mucous lining of the nostrils and throat. It is supposed to be caused by the pollen of certain plants which irritate the sensitive lining of the organ of respiration of certain people. The surprising fact is that when hay-fever attacked you once, it usually will call on you every year at pretty near the same time. Sneezing, excretion from the nose and throat, tears rolling from your eyes are the very inconvenient symptoms of this ailment.

The public believed for a long time that Hay-fever was incurable. Such is not the case. The fact is that people who suffer from



Removing a Stiff Neck.

hay-fever are habitually susceptible to this disease. Their system is weakened. If they would strengthen themselves they could ward the coming attack off.

Of course all hay-fever sufferers may feel good and strong otherwise and not realize their state, still their organs offer a prepared field for the infection upon which

it can propagate. Their system is somewhat below the natural healthy state. Also a dilatation and congestion of the capillary vessels in the mucous tissue and the nasal chambers causes them to be very susceptible to irritation by breathing.

Both conditions can be helped and remedied through the beneficial action of the Violet Ray high frequency current. Direct applications to the nose internally are bringing definite results. External treatments of the nose, temples, and forehead assist also in the treatment. Tonic spinal application to tone up the nervous system do a lot of good, and should not be omitted. Ozone treatments with

the W. C. Co. Ozone Generator are a valuable adjunct to hay-fever treatments and they should be resorted to long before the expected hay-fever attack approaches. The wonderful properties of ozone will strengthen the entire organism and especially the organs of respiration to such an extent that the dreaded hay-fever will have no chance to develop to a remarkable degree.

OZONE TREATMENTS

They are accomplished and made possible by the use of the W. C. Co. Ozone Generator. This is a glass instrument as shown in the illustration. It can be attached to the VIRAYO. It is used for the direct medication of all nasal, throat and bronchial affections. This ozone generator converts the oxygen in the air into ozone. Ozone is a modification of oxygen (concentrated oxygen) which has increased chemical activity; it is a colorless gas having a peculiar odor. It is produced whenever elec-

trical discharges pass through air.

Ozone exists in country districts more than in towns, while in crowded thoroughfares it ceases to be recognizable. Ozone is a very intense oxidizer (Germicide). It attacks organic substances such as germs, bacteria. The oxidizing effect of ozone is in reality a burning effect, for substances burn be-

cause oxygen combines with some of their elements. Ozone is active in such a way that no heat accompanies the oxidation; the ozone—particles combine with the organic substance when finely divided, no flame or heat is therefore produced.



Taking an Ozone Treatment At Home.

Bacteria (any kind of germs) are little organisms composed of organic substances. Ozone acts on these organisms by a burning process.

As ozone is more chemically active than oxygen it has a greater effect in oxygenating the blood in the lungs. This produces an exhilarating effect on the human system. It is largely the presence of ozone in country air that makes that air so exhilarating. The oxygen of the air supports animal life; oxygen is absorbed by the blood as it passes through the lungs and carried to all parts of the body where it oxidizes or burns up the tissues, removing impurities.

Our blood vessels contain a certain proportion of oxygen or ozone in order to maintain a healthy state of the body. Ozone is decidedly the most important element in tissue building. Without it can no phenomena of metabolism take place. The function of breathing is the most intensely vital and important of all bodily functions. It constitutes the sole means for the entire system's oxygen supply. Upon it depends the performance of all bodily functions. Ozone inhalations are therefore of universal benefit.

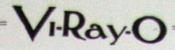
They are exceptionally curative in catarrhs of the respiratory organs, for tuberculosis in the incipient stage, in toxic and bacterial diseases, in neurasthenia and all nervous disorders, blood poisons, influenza, whooping cough, hay-fever, all acute diseases due to micro-organisms, lobar and bronchial pneumonia.

In the city of Chicago was a test made with ozone treatments in three hundred and sixty-five cases of tuberculosis. All stages of this disease were included and everyone showed tubercle b'acilli. Two hundred and four of these cases were pronounced recovered by ozone treatments, but not until every symptom of the disease had disappeared. The vitality of consumptives is always below normal. It is just this class of sufferers that need out-door life. Most of them cannot afford it. The Ozone Generator brings nature's fresh air right to their home.

CATARRHAL CONDITIONS

There are a great number of catarrhs. They are all inflammations of the mucous membrane. The mucous membrane is the moist skin which lines all organs that open to the outside of the body. The nostrils, mouth, passages to the lungs, stomach, intestines, urinary passages, all have mucous membrane. Usually we understand under catarrhal conditions the inflammation of the nasal and throat passages. This inflammation can become chronic and is not an uncommon disease. Colds and catarrhs go hand in hand.

VIRAYO treatments improve catarrhal conditions. In fact they cure them entirely if properly used. Cases of long standing and called chronic have given away under such treatments. Ozone inhalations are here more indicated than anywhere else. They assist in the healing of the inflamed mucous membrane.



NOSE AND THROAT AFFLICTIONS

Colds, acute nasal catarrhs, inflammations of the throat, Bronchitis, Asthmatic conditions yield readily to VIRAYO Applications, Grip, Influenza are treated with success.

The tonsils cause us often much trouble because of inflammation. Tonsilitis as this condition is usually called is most frequent in childhood. It responds to external applications. Whenever a soreness of the throat begins to appear the VIRAYO should be used.

VIOLET RAYS AN AID TO BEAUTY

Natural beauty depends on health. The Violet Rays in facial treatments assist by their tonic properties the general health and tend to keep up a rosy and refreshed complexion. The daily aid of the vitalizing energy of VIRAYO treatments not only restores a worn out expression to attractiveness, but also replaces paleness by a healthy bloom ... Facial treatments with the VIRAYO will give your skin that wonderful look of pleasantness which is so essential in our life. The Violet Rays produce better results in aiding beauty than any other means. They stimulate in their characteristic mild and pleasing way the circulation near the surface of your skin. They cause a cellular massage upon the tissue. They have a gentle heating effect. They kill those small bacteria which often cause eczema and skin eruptions. The fact that the Violet Ray high frequency current reaches the blood and the lymph vessels under the skin guarantees great benefits. It is nutrition that is mostly needed by the dying surface tissue. Better skin nutrition accelerated by better blood circulation means new life to your skin. Violet Rays actually improve the texture of tissue by vitalizing skin nutrition.

Facial treatments with the VIRAYO will be found ideal for the removal of blemishes as blackheads, pimples, etc. For these afflictace.

All up-to-date Dermatologists use nowadays Violet Rays for the restoration of a natural youthful complexion. They cannot afford to erates crow's feet and wrinkles which mar the face. Lines about the nose and mouth and sunken in cheeks indicate a lack of nutridard of health with the vitalizing food of the VIRAYO and all marks

of worry, age and faiding beauty will quickly Facial disappear. treatments are pleasant. They force a rich stream of blood through the tissue and encourage nature to do its proper work. We may eat plenty and good and still sometimes look haggard and flabby. The reason for that is that the nutriment of the food is not used to build up the tissue in our face. neck, arms or bust.



The Most Scientific Scalp Treatment for Falling Hair, Dandruff, Gray Hair, Etc.

The tiny blood-vessels and nerves neglect their duties. You can easily stimulate them and make them take up their work again by a few VIRAYO applications. It is surprising to see how rosy your cheeks will look after a few minutes of VIRAYO treatment. And this is a natural, healthy color caused by your own good red blood. The VIRAYO is the only and best means to bring new life to tissues; it electrifies every cell, restores it to a healthy state and rejuvenates your appearance in all. A treatment once a day will prove sufficient to give you the natural charm which make all healthy looking people attractive.

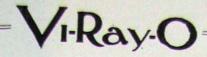
FACIAL BLEMISHES

Dr. L. Ducan Buckley, the well known skin specialist, reports in American Medicine:

During the past year I have healed private patients by means of high frequency methods, using only local electrodes and it has proved a very valuable treatment in many instances.

WARTS

I have found it very serviceable in the removal of warts, which are often very troublesome, especially when on the scalp. The wart dries down, falls off, and the process ends without a scar.



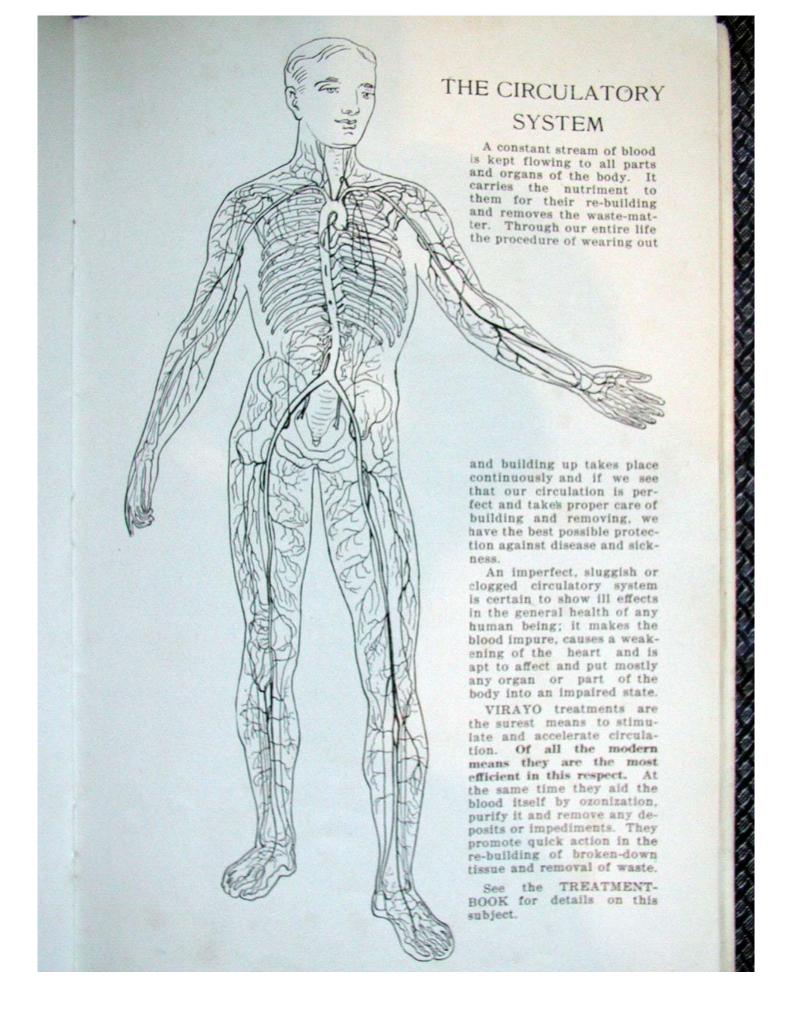
PORTWINE MARKS DISAPPEAR.

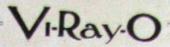
The same physician speaks of a case in which Miss V., 24 years old, had a brilliant purple portwine mark on the side of the face, near the ear. Various treatments for years had not diminished the area. The application of the High Frequency spray has been most gratifying. The new tissue, replacing the old one, shows a pale pink which gradually whitens.

If this form of electricity would accomplish only the satisfactory removal of these disfigurements, which render so many lives unhappy, it is a boon worth having.



Taking a Little Virayo Tonic.





PHYSICAL STRENGTH

Good health and physical strength go together. Where is the one you will find the other. In the VIRAYO we have the best means to obtain health and assist our physical strength. Women find the best friend in the VIRAYO. They can really accomplish with it at home for what they otherwise pay high prices at commercial establishments. But men should just as much see that their personality and looks be pleasant. It helps in every way. Let Violet Rays lighten your darkened face. A bright, clean and fresh looking countenance wins confidence and success. Look clean-cut, it counts much toward efficiency. Efficiency is the great thing in life. You must keep fit by assisting nature and increasing your vitality. Vitality is your working capital. VIRAYO massages will cultivate your health, increase your vigor, help those forces of nature which produce energy, brain power, capability of thought, grasp of intellect. Don't think you are too busy for VIRAYO treatment. You waste more time by working with a dull brain in a weak physical condition than by a few minutes of VIRAYO applications in the early morning. It is the healthy man who wins out. Only an efficient body and brain can keep enthusiasm and determination. Let the VIRAYO help you to this effect.

PYORRHEA

Riggs disease, or pyorrhea, is effectively treated by the Violet Ray. Special dental Applicators are made for this purpose. VI-RAYO Applicators are germicidal; at the same time promote nutrition to the affected gums. Ozone treatments in addition to regular applications prove to be helpful. They should be used as soon as this disease is recognized.

KIDNEY TROUBLES

The kidneys perform a very important task in our body. They are organs of excretion. If their function is somehow impaired by inflammation due to heavy cold or due to congestion or other causes grave consequences are resultant.

VIRAYO applications, as indicated in our instructions, aid in a most valuable way the return to a normal state. They bring relief by their stimulation to the nerves and blood supply to the kidneys

Violet Rays exert a powerful influence. The very fact that albumen in the urine quickly disappears after a few applications alone proves sufficient. proves sufficiently their importance in fighting this class of sickness. Nobody who suffers from kidney disorders can really afford to be

without the VIRAYO. It helps when other means, especially drugs, have long been given up as useless,

INDIGESTION, DYSPEPSIA

When the stomach and intestines fail to digest food properly we suffer pains and uneasiness which are known to nearly everybody. The causes of indigestion are many. Worry, excitement, nervousness, anger, overeating and eating or drinking of food stuffs which do not agree with us, haste—all lead to indigestion. Indigestion weakens our body in a remarkable degree.

Our health is quickly undermined when the digestive organs fail to do the proper work. Violet Rays are used with truly wonderful success in treating indigestion and dyspepsia. When applied



Stomach Treatment Through Glass-plate.

some time after eating direct on the stomach they start and increase circulation and fill us with a comfortable warmth. They relieve us of that disagreeable pressure of heaviness. Applications to the spine especially the section controlling the nerves of the stomach and the intestines are very effective. We find here as in most other ailments immediate relief from the Violet Rays. Heartburn, gastritis and the feeling of gas pressure respond to the treatment without fail. The

most stubborn cases show quick improvement after a few doses of Violet Ray.

ABOUT THE LIVER

The liver belongs to the digestive organs. It also plays a role in the procedure of excretion. If for some reason or another it is thrown out of balance it upsets our general feeling in a remarkable degree. Troubles in the function of the liver, in cases where it does its duties poorly, are helped in an easy and sure way by the VIRAYO.

If some serious disease, as for instance inflammation, enlargement, gall stones, waxy liver or amyloid, jaundice, atrophy, fatty de-

generation are recognized, treatments with the VIRAYO are of sufficient value to warrant their immediate employment. Our instruction book tells how. Hardening of the liver is rather common nowadays. This ailment is quickly relieved and also cured if VIRAYO treatments are taken in time.

It is probably not surprising for many people to learn that an inactive or clogged liver will cause the "blues." They should try a VIRAYO application. It's most refreshing. Gloom and despondency disappear, everything looks bright again, hope and enthusiasm return.

LOCOMOTOR ATAXIA

Locomotor Ataxia has been looked upon so far as incurable. Recent Violet Ray treatments have shown great results. The successes obtained with the VIRAYO have been surprising to many physicians.

If this affliction is far advanced, it might not yield very quick at first, but some improvement is quite sure. Persistency and the conscientious use of the VIRAYO reward the sufferer in nearly all cases.

The treatment for Locomotor Ataxia is not a difficult one. Spinal applications prove to be most effective.

ANAEMIA

Thin blood, poverty of the blood is likely to cause a lot of trouble. It weakens the body and makes us apt to catch any kind of sickness easily. Anaemic persons look pale and have little energy. They tire easy, show little appetite and lack muscular strength. They are usually nervous and suffer from headaches. The Violet Rays increase the oxygenation of the blood. They assist also the regenerative forces for the production of new blood cells by stimulation. The oxygen carrying powers of the red blood corpuscles is increased. It is accomplished by the process of ozonization which has been mentioned before. This particular characteristic of the Violet Ray is probably the most important.

Ozone inhalations with the ozone generator are an aid to all anemic people and should therefore not be omitted.

DEAFNESS

can be partial or entire. Sometimes it is also of nervous origin. VIRAYO offers a splendid chance for relief. In deafness due to catarrhal conditions nearly 95 per cent of all cases treated with the

VIRAYO respond and are cured. A special applicator is made for the treatment of the ear.

ABOUT THE LUNGS—CONSUMPTION— **TUBERCULOSIS**

The lungs of our body are the organs of respiration, or breathing. Their chief duties are to purify our blood. They remove the carbon-dioxide from it and supply it instead with life-giving and tissue-building oxygen. Inasmuch as the process of breathing is

of vital importance it is of value to learn that the VIRAYO will benefit by proper use the lungs in a remarkable manner. Congestion can be easily removed, pain relieved, inflammation reduced. The whole system of respiration, that is the breathing apparatus, can be aided in its work.

CONSUMPTION

(Phtisis, Tuberculosis) of the lungs is curable if treated in its early stages. As well known this grave disease will attack especially underfed people. whose system is already weakened. The VIRAYO not only aids by promoting nutrition, but tones up the whole nervous system, starts a better circulation and assists nature in excretion. The Violet Rays are truly a wonderful aid in tuberculosis; their benefit is recognized by 90 per cent of the medical profession. If used in con-



A Backache yields to a few minutes' Application.

nection with Ozone treatments they can be regarded as an ideal method to fight the white plague successfully.

H. de LaCoux, Chemical Expert to the Council of the Prefecture of the Seine, Paris, says: "In the application of ozone for tuberculosis, it is an undeniable clinical fact that the number of bacilli in the sputum diminishes after the second or third treatment, even before the general condition of the patient is improved."

Dr. George Stoker, London, reports nine cases of tuberculosis treated within a year at the Stoker Oxygen Hospital, of which eight were discharged with the disease definitely arrested.

Dr. J. T. Gibson says in Advanced Therapeutics: "In advanced cases with cavities and much expectoration, I think there is no means of so much use as inhalation of ozone. It empties the lungs of detritus and pus, revivifying the blood, disinfecting the parts of the lungs reached, and after the first irritation of its use has passed off, there is nothing that gives the lungs the sense of rest and quiet as does this agent. I have seen the quantity of sputum lessened to a remarkable degree, and fever disappear, and all symptoms improve by the use of ozone inhalations."

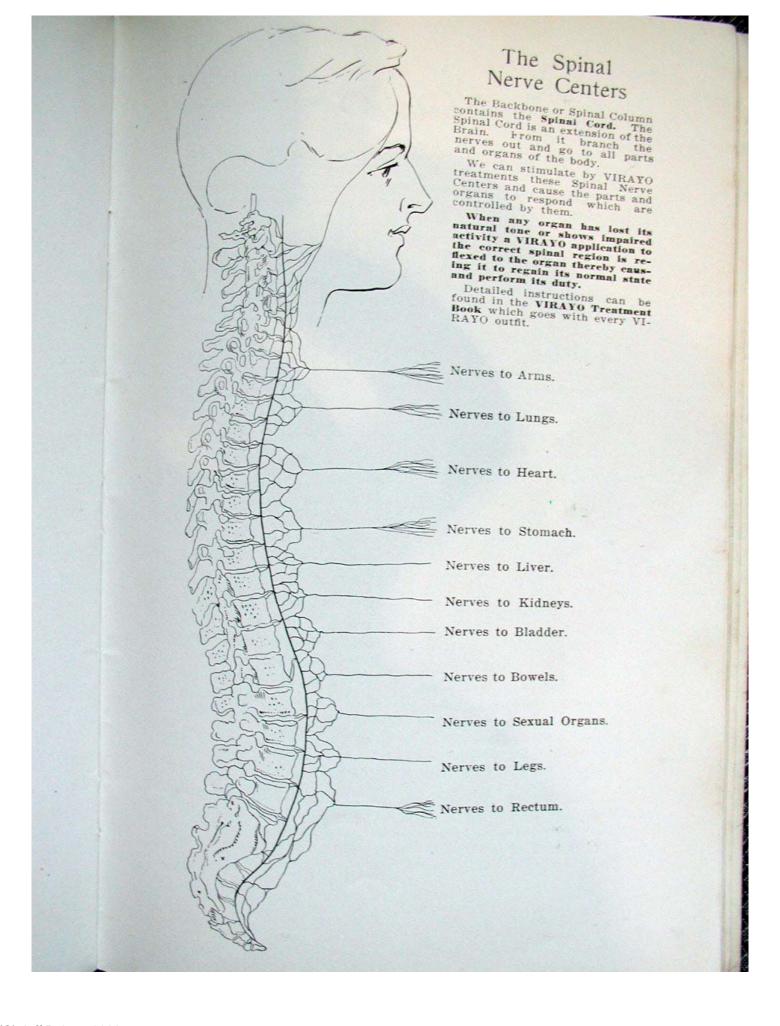
Dr. Doumer, Paris, writes: "The curative action of High Frequency currents on pulmonary tuberculosis is one of the most recent demonstrations of these currents. We have arrived at the conclusion that by their application the general conditions improved, the bacilli diminish, the anorexia and fever decrease, and the pulmonary lesions cicatrize, even to a complete cure in many early cases. The results obtained are constant. Most of the therapeutical properties of these currents by their general methods of administration are due to the increase of tissue resistance which they help to establish. Nature does the rest."

Treatments should be given according to our instructions which accompany every VIRAYO outfit.

PLEURISY

Pleurisy is called the inflammation of the membrane which lines the inside of the chest. The Pleura as this sensitive membrane is medically termed, also forms a cover for our lungs similar to a bag. It protects the lines of th

Whenever the Pleura becomes sore or inflamed we feel pain with every breath we take. We can relieve this pain by proper VIRAYO treatments. Applications to the back on both sides of the such applications we help her to accomplish the task of restoring the normal and healthy state.



BLADDER TROUBLES

It is remarkable how quick bladder troubles can be relieved and cured by the VIRAYO. Inflammation ceases under the influence



A Slight Sciatic Touch disappears after an Application through the Clothes.

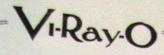
of the Violet Ray. In cases where the continued demand of emptying the bladder annoys the sufferer permanently, the VIRAYO is of utmost service. The passing of urine at night, a trouble which is often found among children can be treated and helped.

BACKACHE

Sore muscles in the back are instantly relieved by the VIR-AYO. There can be a number of causes for backache, and it is always advisable to find out definitely where the trouble really lies. Weakness of the bladder or sexual organs, lumbago, rheumatic pains in the muscles of the back, kidney trouble all contribute to backache. The VIRAYO will not only relieve the pains but enable you to treat the cause successfully.

DRUG ADDICTIONS

In alcoholism, cocaine habits, use of morphine or cpium, the proper Virayo applications counteract these afflictions. Treatments to the spine and other parts of the body according to our indition to a normal state.



PILES—(HEMORRHOIDS)

People who have suffered for years from piles and could not find relief have been quickly helped and cured by rectal applications with the special applicator.

Hemorrhoids, or piles, are a form of blood tumors. They are usually caused by an enlargement of the veins near the rectum. Constipation, sitting on hard places for long stretches of time, tight fitting clothes which impair the blood circulation in the abdomen, tend to cause these rectal troubles. Sometimes the Hemorrhoids protrude and then show great sensitiveness. They cause a lot of pain and discomfort. Some bleed, some itch, some ache. All can be relieved and mostly permanently cured by proper use of the rectal applicator. Headaches and nervous irritability resulting from this class of disease are cured at the same time.

ECZEMA

Cases of Eczema yield quickly to the Violet Ray. Eczema have always been treated with most favorable results. Some other skin troubles such as Psoriasis, Ringworm, Shingles, Herpes, Hives, Scabies, Milc-crust, Itch, Chilblaines, Red Noses are removed by the VIRAYO.

EYE DISEASES

Diseases of the eyes, as Iritis, Redinitis, Atrophy of the Optic Nerve, Conjunctivitis, Trachoma, Glaucoma, Incipient Catarract, Paralysis of Ocular Muscles, Intra-ocular Hemorrhage have been successfully treated by the Violet Ray High Frequency current.

Proper instructions are given in our treatment book.

PROSTATIC TROUBLES

Prostatic troubles caused by inflammation of the prostate gland show vast improvement through the use of Violet Rays. A special applicator is made for the treatment of the prostate.

Exact instructions regarding the treatment of this disease are given in our treatment book. Chronic forms of prostatic diseases have been cured successfully by means of the Virayo. The beneficial heating effect, together with the influence of the High Frequency current itself give a wonderful relief within a short time.

SCALP TREATMENTS

Dandruff, falling hair, gray hair, baldness, itching scalp, etc., are very successfully helped by Violet Rays. There is no question that the VIRAYO represents the most scientific method of treating

the scalp. Their beneficial value is beyond all doubt.

They produce a normal



Scalp Treatment.

and healthy scalp, revitalize impoverished hair, restore its natural lustre and fullness. They bring in new hair by causing additional nourishment to flow to the dormant papilla.

In baldness the Violet
Ray proves to be of a
very welcome and effective assistance to restore
the natural growth of
hair. The results are
very satisfactory. Conscientious use of the
VIRAYO and patience

have here as in many other instances surprised many people.

Gray hair has been restored to its original color and beauty in most cases. We do not claim too much by saying that VIRAYO stimulate and assist natural growth of hair.

FATIGUE

Fatigue can affect our muscles as well as our nerves. No matter of which character it may be we can evercome it by the pleasant stimulation of the Violet Ray. There is in fact no other agent known to science today which can produce the same result as the proper VIRAYO treatment. We can overcome the worn-out feeling of the latter will be removed if the accumulation of waste matter, the caused by overwork, rest and sleep are absolutely necessary, but a glad awakening in the morning.

LIST OF DISEASES

AND AILMENTS FOR WHICH VIRAYO TREATMENTS ARE RECOMMENDED BY PROMINENT MEDICAL AUTHORITIES.

Acne Rosacea (Red Nose). Acne Vulgaris (Pimples). Actinomycosis (Ray Fungus).

Adenitis, Cervical (Tuberculosis of Diarrhea. Glands). Adhesions. Albuminuria (Nephritis; Bright's Disease). Alcoholism. Alopecia (Loss of Hair). Amenorrhea. Anemia and Chlorosis. Aneurism. Appendicitis, Catarrhal. Arteriosclerosis and High Blood Pressure. Articular Rheumatism. Ataxia (Locomotor Ataxia). Asthenopia. Asthma. Atonic Dilatation of the Stomach. Atrophic Rhinitis (Ozena). Atrophy of the Optic Nerve. Baldness (Alopecia). Barber's Itch. Bladder Disease (Cystitis. Bladder, Papilloma of. Blepharitis. Blindness from Intra-Ocular Hemorrhage. Boils (Furunculosis). Brachial Neuritis (Neuritis). Brain Fag. Bronchial Asthma (Asthma). Bronchitis. Callouses. Cancer (Carcinoma). Canitis (Gray Hair). Carbuncle. Carcinoma. Catarrh of Bowels (Colitis and Enteritis' Catarrh of Nose (Nasal Catarrh, Ozena). Catarrh of Womb (Endometritis, Cervicitis). Cellulitis. Cervical Adenitis Tuberculosis of Glands). Cervicitis. Chancroid. Chilblains. Chloasma (Moles, Moth-Patches). Chlorosis (Anemia and Chlorosis). Chronic Ulcers. Cicatrices (Scars). Cold Extremities. Colitis (Inflammation of colon, mucous colitis). Constipation. Convalescence. Corneal Opacity. Corns (Callouses). Coryza. Cystitis.

Dandruff (Seborrhea). Deafness. Drug Addictions. Dupuytren's Contraction. Dyspepsia. Earache. Ear Diseases. Eczema. Endometritis. Enlarged Prostate (Prostatic Disease). Enteritis. Epididymitis. Epilepsy. Epithelioma. Erosions of the Cervix Uteri. Exophthalmic Goitre (Goitre). Eve Diseases. Facial Blemishes. Favus. Fissure (Anal). Flabby Breasts. Frontal Sinusitis. Furunculosis. Gastritis. Genito-urinary Diseases. Glaucoma. Gleet. Goitre. Gonorrhea. Gout. Gray Hair. Grippe Hair, Falling. Hay Fever. Headaches. Heart Disease. Hemorrhoids. Hyperesthetic Rhinitis Herpes Zoster (Shingles). Hysteria. Impetigo. Impotence. Incontinence of Urine (Engresis). Infantile Paralysis. Influenza (Grippe). Insomnia (Sleeplessness). Intestinal Indigestion. Intra-ocular Hemorrhages. Iritis. Keloid. Laryngitis. Leucorrhea. Leukemia. Lichen Planus. L'chen rubra. Lithemia (Gout). Lumbago. Mastoiditis (Mastoid abcess). Menorrhagia (Metrorrhagia). Migraine. Molluscum Contagiosum.

Muscular Rheumatism. Myxedema. Nasal Diseases. Nephritis (Albuminuria). Nervous Debility (Neurasthenia). Neuralgia. Neuritis. Obesity. Opacity of Cornea (Corneal Opacity). Orchitis. Otitis. Ozena. Paralysis. Paralysis Agitans. Paralysis of Sphincter Ani. Pelvic Abcess. Pelvic Adhesions. Pelvic Exudates. Periostitis. Pharyngitis. Phlebitis. Piles (Hemorrhoids). Pityriasis. Pleurisy. Pneumonia. Post-fracture Conditions. Post-operative Conditions. Proctitis. Prolapse of Rectum. Prostatic Diseases. Pruritis (Itching). Pruritis ani. Pruritis vulvae. Psoriasis. Purpura rheumatica. Pyorrhea alveolaris (Rigg's Disease.) Pyosalpinx. Reynaud's Disease. Rectal Diseases. Renal Diseases.

Retinitis. Rheumatism. Rigg's Disease. Ringworm (Tinea). Rodent Ulcer. Sciatica. Scars (Cicatrices). Seborrhea. Seminal Emissions. Sinusitis. Skin Diseases. Sore Threat (Pharyngitis and Laryngitis). Sprains. Sterility Stiff Neck (Torticollis, Rheumatism). Stricture of the Urethra. Sub-involution. Suppuration. Sycosis. Synovitis. Tabes Dorsalis (Locomotor Ataxia). Tic Doloreaux. Tinnitus Aurium. Tonsillitis. Tonsillotomy. Torticollis. Trachoma. Tuberculosis of Glands.
Tuberculosis of the Peritoneum.
Ulcers (Chronic Ulcers). Tuberculosis (Pulmonary). Urethritis. Uric Acid Conditions. Urticaria (Hives). Uterine Diseases. Vaginitis. Varciocele. Varicose Ulcers. Warts. Writer's Cramp. Wry Neck.

For details of these diseases and their treatment see the Treatment Book which accompanies every Virayo Outfit.



VIRAYO OUTFIT NO. 1



FOR ALTERNATING OR DIRECT CURRENT.

Includes the Virayo Applicator for surface treatment (No. 1), handsome cloth-lined carrying case and treatment book \$25.00

VIRAYO OUTFIT NO. 2



FOR ALTERNATING OR DIRECT CURRENT.

VIRAYO OUTFIT NO. 3



FOR ALTERNATING OR DIRECT CURRENT.

includes the Virayo, Surface Applicator No. 1, Scalp Applicator No. 6, Eye or Corn Applicator No. 10, Metal Handle No. 28, handsome cloth-lined carrying case and treatment book\$28.75

VIRAYO OUTFIT NO. 4



FOR ALTERNATING OR DIRECT CURRENT.

Includes the Virayo, Surface Applicator No. 1, Scalp Applicator No. 6, Eve or Com Applicator No. 1, Scalp Applicator No. 28, Ex-6, Eye or Corn Applicator No. 1, Scaip Applicator No. 10, Metal Handle No. 28, External Throaten Applicator No. 10, Metal Handle No. 28, External Throat Applicator No. 10, Metal Handle No. 23, handsome alath Phicator No. 8, Fulguration Applicator No. 23, handsome cloth-lined carrying case and treatment book, \$31.25

VIRAYO PHYSICIANS' OUTFIT NO. 5



FOR ALTERNATING OR DIRECT CURRENT.

VIRAYO PHYSICIANS' OUTFIT NO. 6



FOR ALTERNATING OR DIRECT CURRENT.

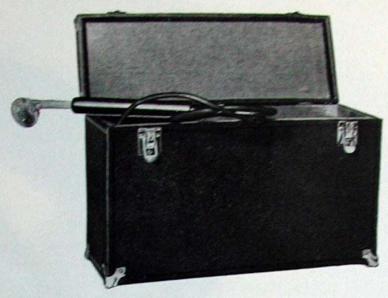
This Outfit contains Insulated Orificial Applicators exclusively.

These are more efficient in action and are preferably used in all orificial treatments.

NOTE: The Insulated Urethral Applicator can also be used for internal throat work and the Insulated Prostatic Applicator for vaginal treatments.

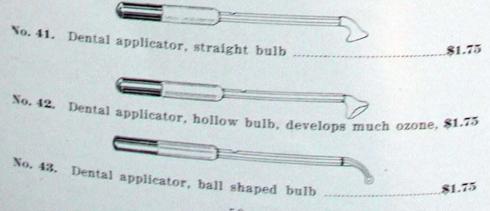
57

VIRAYO BATTERY OUTFIT NO. 7



This outfit can be used in houses and in the country where no electric power is available. It runs from its own battery. THE ONLY EFFICIENT AND INDEPENDENT BATTERY OUTFIT MADE TODAY.

VIRAYO APPLICATORS FOR TREATMENT OF PYORRHEA



W. C. CO. OZONE GENERATOR

The W. C. Co. Ozone Generator converts the oxygen in the air into ozone. Ozone is a modification of oxygen (concentrated oxygen) which has increased chemical activity; it is a colorless gas having a peculiar odor. It is produced whenever electrical discharges

As ozone is more chemically active than oxygen it has a greater effect in oxygenating the blood in the lungs. This produces an exhilarating effect on the human system. It is largely the presence of ozone in country air that makes that air so exhilarating. The oxygen of the air supports animal life; oxygen is absorbed by the blood as it passes through the lungs and carried to all parts of the body where it oxidizes or burns up the tissues, removing impurities.

The W .C. Co Ozone Generator can be easly attached to any W. C. Co. High Frequency Generator. The Generator is pushed

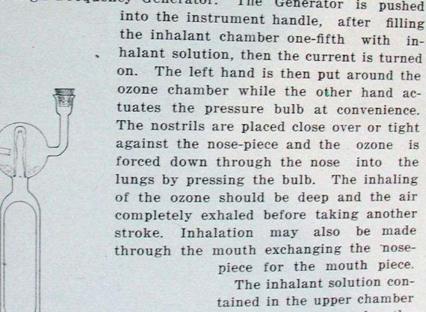


Illustration Showing Details of Construction.

of the generator washes the ozone as it bubbles through it allowing particles of it to be carried along in the form of vapor. This inhalant solution is a splendid combination of essential oils which have a very soothing effect upon the membranes.

They assist healing.

(Continued On Following Page.)

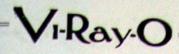
W. C. CO. OZONE GENERATOR.



For attachment to the Virayo High Frequency Generator. Used successfully for the direct medication of many Nasal, Throat, Bronchial and Lung affections. The complete outfit consists of the Generator, a nose piece, a mouth piece, pressure bulb, 'inhalant-solu-



No. 55. VIRAYO Lubricant for use with all orificial applicators and body treatments, allows easy sliding of applicator and prevents



LIST OF VIRAYO APPLICATORS

All Violet Ray Vacuum Applicators are made of the best grade of soda-glass. This glass possesses great mechanical strength. Its chemical composition is of such nature that it does not absorb the so-called chemical rays. These rays, created within the tube, are insible to the human eye, but penetrate the soda-glass and exert a most beneficial influence upon the living tissue. The metal caps at the end of the stem are a protection against damage.

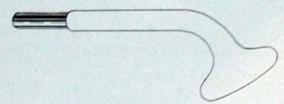
The applicators are most easily attached to the Virayo by simple insertion.

They can be cleaned with soap and water or sterilized.

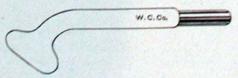
The following illustrations show a number of those Violet Ray Applicators which are most frequently used.

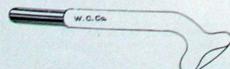
The complete W. C. Co. Electrode catalogue is forwarded upon request free of charge.

When ordering applicators separately please allow for postage.

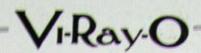


No. 1. Standard surface applicator ________\$0.75
This applicator goes with every outfit free of charge.

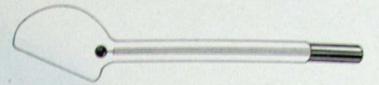


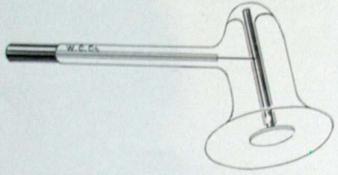


No. 3. Small surface applicator, hollow shaped, generates ozone within cavity and fits nicely over certain parts as cheek-bones, chin, etc. \$0.75

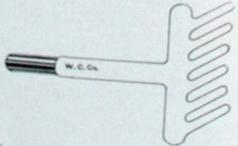


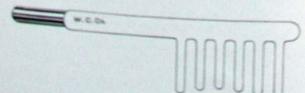
LIST OF VIRAYO APPLICATORS





No. 5. Large condenser applicator, delivers a very strong current, especially recommended for treating rheumatism, lumbago, etc.



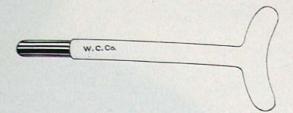


No. 7. Small comb applicator for scalp treatments ...

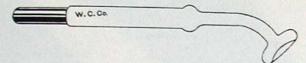
\$1.50

62

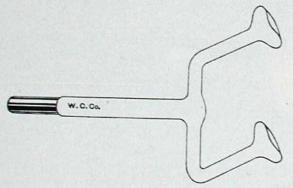
LIST OF VIRAYO APPLICATORS



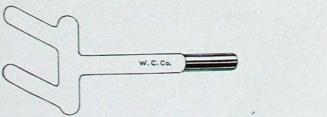
No. 8. External throat applicator, also excellent for neck......\$1.00



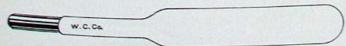
No. 10. Single eye applicator \$0.75



No. 11. Double eye applicator \$1.50

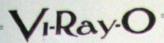


No. 12. Spinal applicator \$1.50



LIST OF VIRAYO APPLICATORS

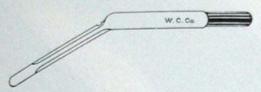
W.C.Ca
No. 14. Eyelid applicator
W.C.Ca.
No. 15. Plain nasal applicator
w.c.ca
No. 20. Plain rectal applicator, diameter ¾ in
No. 22. Corn applicator \$0.75
No. 23. Fulguration applicator for removal of warts, moles, diseased growths, etc
No. 26. Insulated spatulum, or tongue applicator \$1.75
No. 27. Insulated ear applicator
No. 28. Metal handle, used in giving the indirect treatment. \$1.00
64

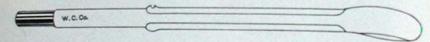


LIST OF VIRAYO APPLICATORS



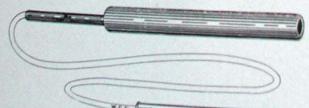
No. 29. Metal knob, for application of high frequency currents with faradic sensation, for spinal applications to cause reflex action



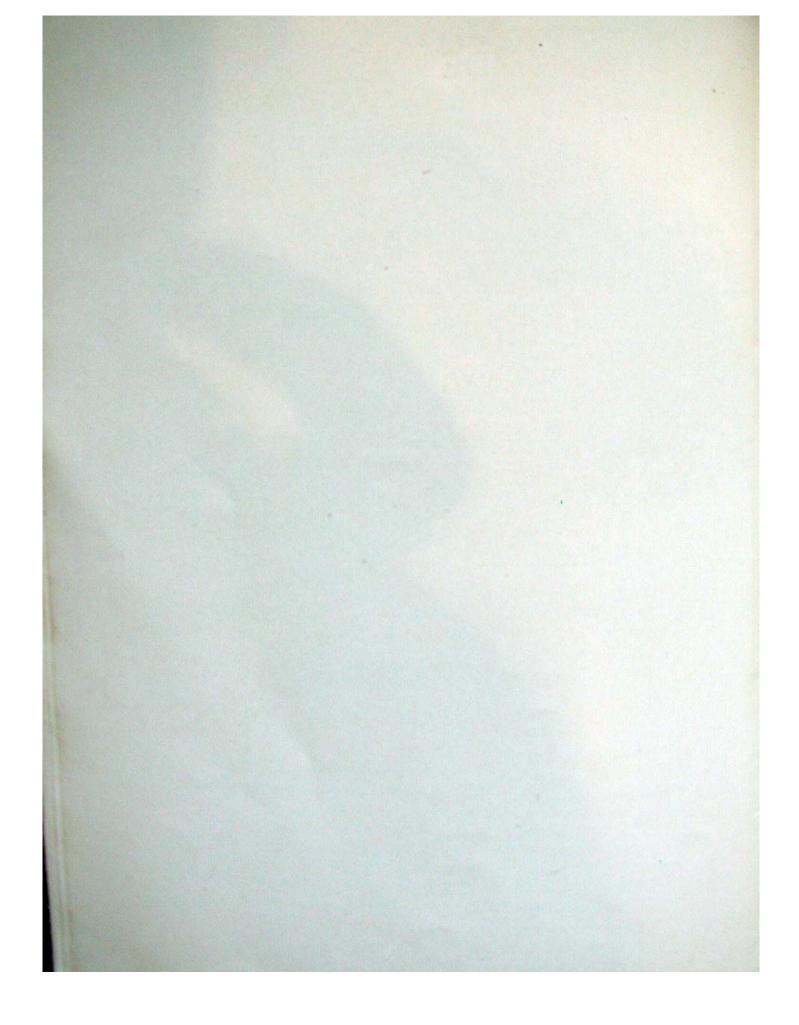




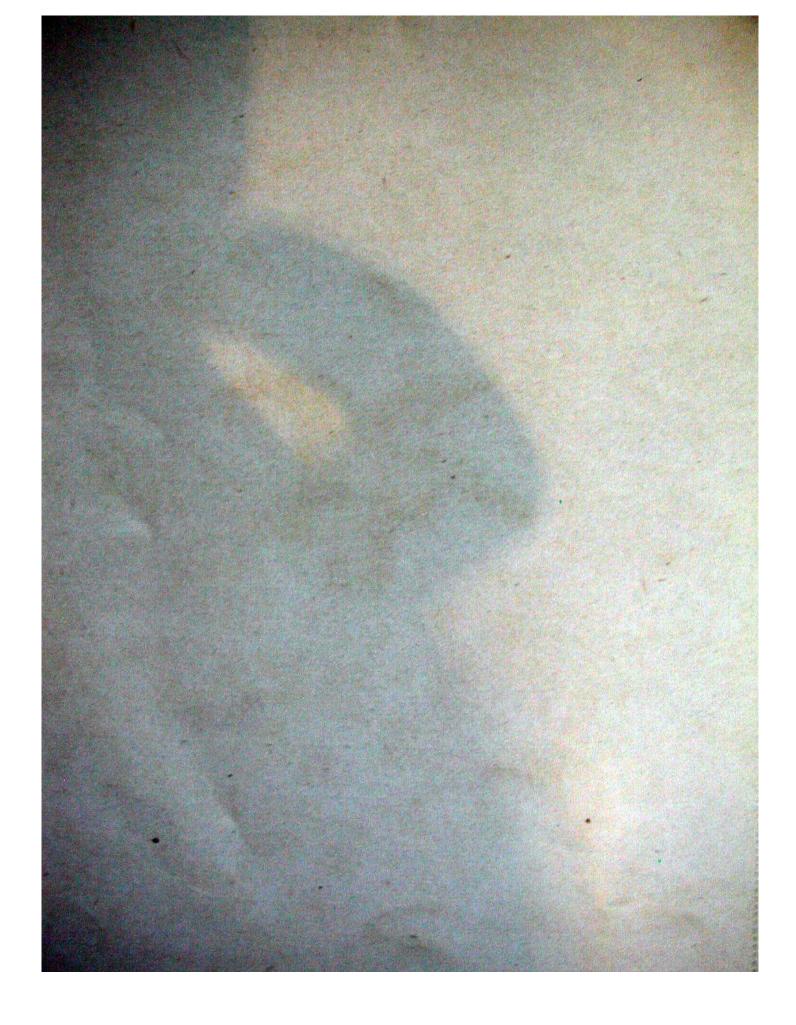
No. 35. Insulated rectal electrode, made in three different diameters, %", ¾", 7%"\$1.75

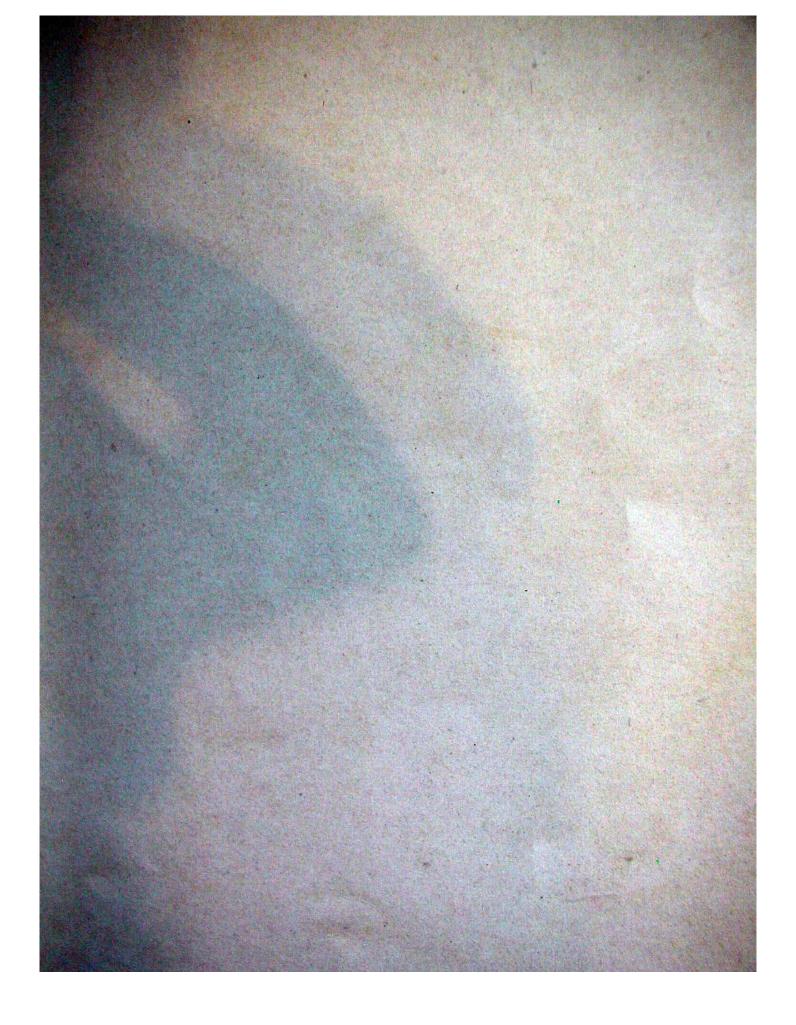


No. 39. Special attachment. This attachment is used by specialists or dentists mostly in connection with any W. Coil High Frequency generator. It allows an easy manipulation of delicate applicators as it is very small and light in weight. The metal connector is inserted into the high frequency instrument, the electrode into the hard rubber handle. The connecting cord, which is well insulated by pure gum tubing, is three feet



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WESTE	ERN COIL COMPANY
	RACINE, WIS.
Gentlemen:	
Please send to	
by Evpress B I. D.	
the following articles	
g wheres	
for which I enclose \$	
	Name
	Address

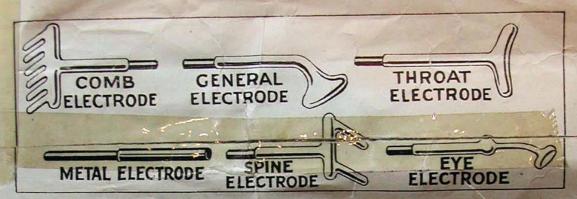








The Electrodes



Picture 2—This shows the various electrodes which are furnished with your Violet Ray Machine. This variety of appliances has been furnished in order that you might give treatments with the greatest ease.

If you have purchased the outfit with the separate control box there are three electrodes included in your set, the general electrode, the throat electrode and the comb electrode.

If you have purchased the Violet Ray Machine with the entire mechanism in the handle, you have three electrodes in addition to those mentioned above; the spine electrode, the eye electrode and the metal electrode.

- GENERAL ELECTRODE: This electrode is for general use on the entire body. You will find it can be used for the majority of treatments.
- 2. COMB ELECTRODE: This electrode is designed so that it can be pulled easily through the hair. The thousands of tiny electric sparks that find contact on the head as a result of this treatment gently massage the nerves and blood vessels of the scalp. It increases the flow of nourishment to the roots of the hair. This treatment is useful in helping preserve the natural color of the hair.
- 3. THROAT ELECTRODE: This electrode is designed to fit over the neck. You will find it helpful in treating ailments of the neck such as tonsilitis and stiff neck.

- 4. THE SPINE ELECTRODE: This electrode is so designed that the two points which find contact with the body fit over the spinal column and in this way make treatment more convenient.
- 5. METAL ELECTRODE: This appliance delive's a strong current and is excellent for general treatment. The patient can hold this electrode without any muscular contraction.
- EYE ELECTRODE: This electrode is so constructed that it fits closely over the eye.
 It is used for the treatment of eye complaints and for stimulating the optic nerve.

These electrodes can be washed with soap and water without harm to them. Keep them clean to obtain the best results.

The electrodes will burn out in time like an electric light bulb. You will find the various electrodes listed in our large General Catalogue.

Should you accidentally break an electrode while it is in the socket it can be removed easily by unscrewing the base of the handle and taking out the socket. You will then be able to push out the broken parts of the electrode. This does away with the expense of a repair man.

Suggestions for Treating Various Ailments

The following information has been taken from cases where physicians or clinics have obtained excellent results. The information given will prove helpful in treating the various ailments. After using the Violet Ray a short time you will learn the best method of treating your particular case. It must be remembered that no two people respond to any treatment in exactly the same way. Only by actual trial can one be certain of the benefits to be obtained. In general, any malady that yields to heat treatment will be helped by Violet Ray applications.

Remember the three methods and the two effects that can be obtained. Do not use the Violet Ray on the hair or body in connection with any tonic containing a high percentage of alcohol. This machine is not a cure-all but has been found helpful in the treatment of the following conditions.

Acne: (pimples):—General application with the general electrode over the affected area.

Abscess:—For abscesses the use of the general electrode has been found to be the most beneficial. Keep the electrode in contact with the

of

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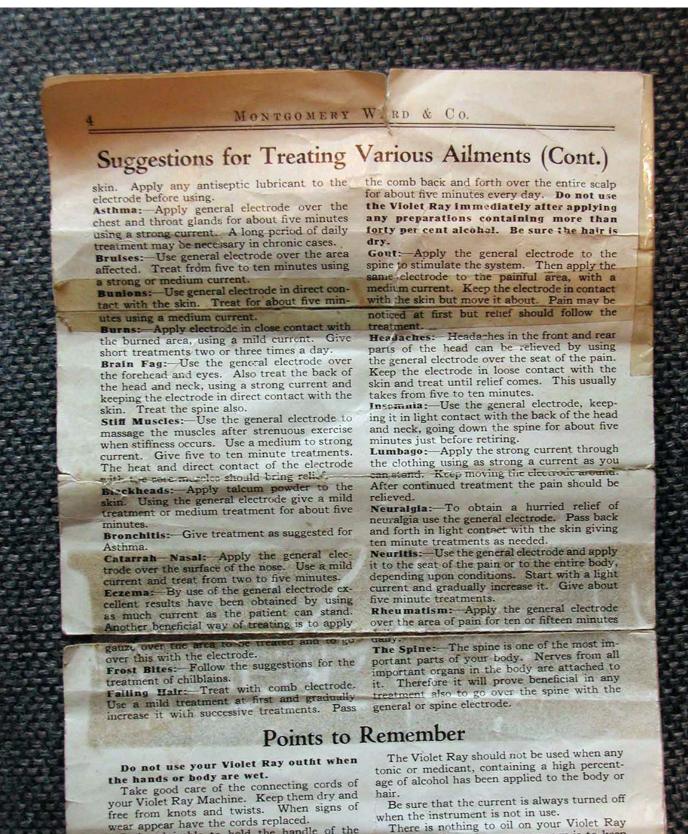
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It is advisable to hold the handle of the machine at the end away from the electrode. Should the current be turned on, the current will jump from the tip of the handle to the hands, if they are near at the end at which the electrodes are inserted.

There is nothing to oil on your Violet Ray
Machine. The only care necessary is to keep
it clean and dry.

Start any treatment with a mild discharge and increase it gradually to the required strength. This will insure painless treatment.

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ONE CAUSE FOR ALL DISEASE AND WEAKNESS

All human ailments, with the exception of highly infectious and contagious diseases, are traceable to one cause: Imperfect circulation and impoverished blood.

During our youth, when we take plenty of exercise, enjoy sound sleep, our blood is rich and we are insured of a copious supply to every part of our body.

Gradually, as we grow older, we pursue a more sedate mode of living and our circulation slows down at the same time. The flow of blood through our veins is slower and our whole body suffers.

When our body is in this condition, germs find fertile field to lodge and multiply.

For this reason, weak and run-down persons become easy prey to almost any disease to which they are exposed.

How to Remedy This Condition

It is reasonable to assume that by increasing the flow of blood through the body, the reverse of this process will be true and the congestion and disorder can be relieved.

A systematic course in physical culture will, in time, renovate the body completely. Few of us are able to devote necessary time to such course. By means of Violet Ray treatment, every functional activity of the body can be speeded up and the blood made to run through the veins with renewed vigor.

CONCENTRATION

An important feature of this treatment is that it can be concentrated to any particular organ that requires special treatment. It brings a vigorous surge of rich, warm blood to any part, thereby washing away the silt of disease, strengthening and nourishing the tissues, and giving vigor and vitality to any part treated.

CELLULAR MESSAGE

Every vibration of the violet ray causes the cells of the body to vibrate. This vibration gives the effect of a massage, and as its frequency is so high that it is insensible to us, its effect is rapid and powerful.

It imparts new life to each individual cell and enables it to more readily absorb the nutriment from the blood stream, thereby building new tissue. In short, it tends to revive and invigorate every bodily tissue by rejuvenating each individual cell of which it is composed.

SUMMARY EFFECT OF VIOLET RAY TREATMENT

When daily treatments are given with Violet Rays the following effects are observed:

Return of Sleep.

Increase of strength and vital energy.

Increase in cheerfulness and power for work.

Improvement in appetite, digestion, etc.

Increase of blood supply to the point of application.

General increase of local nutrition and progressive improvement in the general functions.

Increase of secretions.

Soothing effect on the nervous system.

Increase of oxygen in the blood. (Ozone being driven directly through the skin into the tissues, accomplishing "ozonization" of the blood.)

WHY YOU SHOULD USE VIOLET RAYS

Violet Rays should be used by everyone experiencing sickness or ailment of any kind. The healing properties of Violet Rays are manifold, and they accomplish what drugs and medicine never can. The regular introduction of a vitalizing shower of diffused electricity into your system is exactly what is needed to make it function properly and efficiently. To be healthy, use violet rays, to keep healthy, use violet rays.

There are three distinctly different ways of applying violet rays.

First: Soothing Effect.

This soothing, or sedative effect is administered by means of the glass applicator. To secure this effect the applicator is applied directly to the bare skin. You can calm painful sensation sensation by sedative treatment: these treatments are of great benefit to all nervous ailment. Nervous troubles are quickly and most beneficially influenced by the sedative currents. A general electrification treatment refreshes the entire nervous system.

Second: Stimulating Tonic and Invigoration.

Stimulation and invigoration is produced whenever an electrode is somewhat lifted during its application or used through cloth or clothing.

This stimulation is caused by the many small sparks called the High Frequency Spray. They bombard the area which they cover, causing a tingling but pleasant sensation. They have a beneficial heating effect, too. Besides they generate ozone. Particles of this ozone are driven right into the tissues, causing ozonization of the blood. Sparks are also germ-killing and have a great power over infection.

Stimulating treatments are best produced by application through the clothing or through a towel which has been put over the part to be treated. As the length of the stimulating spray depends on the thickness of the interposed dry resistance, that is the clothing or towel, any desired effect is obtainable. Anything from a handkerchief to a doubled Turkish towel can be used for this purpose. The use of any kind of cloth insures a uniformity in spark length which cannot be obtained in any other way. Powdering the skin with talcum powder often suffices to create the desired dry resistance. This will, at the same time, allow an easy sliding of the applicator. A slight perspiration results from the treatment—this is natural. If the application of talcum powder is not desirable, use of lubricant is recommended.

Stimulating treatments through clothing find a profound use in rheumatism, lumbago, partial paralysis, etc. Slight stimulation is also sometimes desired in skin troubles where the blood circulation is impaired. A single layer of a handkerchief presents enough resistance in such a case. Chronic rheumatic troubles, however, may require the use of several layers or a Turkish towel.

Long sparks from the applicator will cause a counter irritation. Counter iritation relieves wonderfully quickly pains of many sorts.

It is often the very welcome means to kill the pain of a toothache. You will appreciate this pain-relieving quality of the Violet Ray also in sprains, strains, bruises, etc. Counter irritating applications are better, swifter, and more effective than plasters and liniments. In fact, they replace them entirely. Stimulating treatments are long lasting in their effects. They are not like drugs or a glass of wine because they are not followed by a reaction. They do not create any habits.

Third: Internal Antiseptic.

The effect of inhaling ozone is much the same as that of inhaling copious quantities of pure air. It purifies and enriches the blood, invigorates the body, and causes pure oxygen to be taken up in large quantities in the blood stream.

Ozone inhalation is of particular benefit in the treatment of respiratory disorders. Taken into the lungs, it immediately attacks the disease cells and causes them to be oxidized and thrown off with the exhaled air. This treatment has been found to be of great benefit in cases of bronchitis, colds on the lungs, tuberculosis and similar troubles.

PAIN RELIEVING

Rheumatism

The blood deposits poisons when the circulation becomes sluggish, usually at the joints and we feel a slight pain. Continued deposits cause the joints to swell and inflammation to set in. This is called articular rheumatism. The same condition causes pain in the muscles and we have muscular rheumatism.

Violet Rays restore circulation and drive oxygen into the blood, thereby bringing back to a normal condition the afflicted part.

The Condensor Electrode is found most beneficial and should be taken twice daily with a medium strength current. The very first treatment brings a warm, glowing tinge to the skin and relief is apparent. Neuritis

This may be treated in a similar manner as rheumatism, only with a milder current.

Lumbago

This is treated like rheumatism, preferably through the clothing, and with a strong current and with the condensor electrode, twice a day.

Headaches-Insomnia-Brain Fag

When the blood collects in pools throughout the body, it becomes stagnant. One of the most troublesome of these is the cavity in the skull where it directly affects the brain. This causes headaches, brain fag and insomnia. Everyone knows that prolonged mental effort will bring about a congestion in the brain that dulls our power of thought. When this is demanded over a long period of time, circulation is impaired, the nerves irritated and the familiar, dull headache, results. The general treatment is to use the surface electrode and apply it to the different parts of the head, thereby relieving the congestion.

Hair-Scalp-Skin

The hair roots are fed, just as every other part of the body is, through the blood. For treatment of the scalp we have a special comb applicator which pulls easily through the hair and conforms to the shape of the head. Millions of tiny electric sparks carry pure ozone to the small capillaries through which the blood flows in the scalp. These tiny capillaries are gently massaged, and nourishment is brought to the roots of the hair. The very first treatment brings a long, glowing, healthy feeling to the scalp, and with few successive treatments, itching will stop, hair will cease falling, and dandruff disappear. In many cases, gray hair will even be restored to its natural color. By stimulating the scalp apparently dead hair will quickly take on a natural glossy and healthy appearance.

The Violet Ray applied to the face, brings fresh, rich oxygenladen blood, which cleanses the pores, dissolves poisons and other waste matter and assists nature to produce a natural, glowing, healthy condition or complexion. One short treatment every evening and every morning will work wonders on the complexion.

Run-Down Condition

General weakness, tiredness, loss of weight, lack of appetite, usually indicate anemia or impoverished blood and poor circulation. Violet Ray stands alone as the most potent treatment known to science in giving quick relief to such disorders.

This treatment is taken with the general body applicator over the entire body for five minute, twice daily, using a medium current. The metal applicator is also very beneficial and should be held firmly in the hands for ten minutes, twice daily, with a strong current which massages the body with a stimulating cellular massage. Ozone inhalations give very beneficial results.

Dyspepsia, Constipation and Digestive Disorders

This treatment consists in getting the blood into circulation so that it will find its way to the lungs to be properly purified. Then the digestive organs must be stimulated to function properly, so they will rid themselves of the accumulation of bodily waste. Its great advantage over medical treatment is that it can be applied directly to the seat of trouble.

For the relief of indigestion and constipation, the current should be first applied to the abdomen. The applicator should be held in loose contact with the skin, so that a mildly stimulating effect is obtained. This, in turn, will speed up circulation, stimulate the muscles of the abdominal wall and relieve the congested organs. Treatment of the spinal nerve centers should follow the above treatment.

STRENGTHENING THE REPRODUCTIVE SYSTEM

The various weaknesses that afflict these organs in both men and women spring from the same general causes as most other bodily weaknesses, and must be treated accordingly.

Correcting Female Complaints

It is true that the sexual system, particularly in women, is very delicately adjusted, and, consequently, any disorder affecting other parts of the body may have an influence on this system. Women suffering from anæmia, obesity, digestive disturbances and nervous disorders will, in nine cases out of ten, suffer from female troubles also. Because of this, they usually resort to treatment with some nostrum that acts directly on the organs instead of getting at the fundamental cause of the trouble.

In women, disorders of this kind may be classified into three groups: The first group includes those caused by weakness of the parts or of the supporting ligaments and tissues. The second group includes nervous complaints and the third those resulting from internal infections. Into the first class may be placed all displacements and similar troubles that are so common and distressing. The second, or nervous disorders, may be regarded as functional disorders that contribute to the development of the first

group. The third includes inflammations of all kinds in the pelvic region and manifest themselves through the several organs. Usually the symptoms indicate a complication of disorders falling into at least two of these classes.

Violet Ray treatment gives the most gratifying results in correctinng disorders of this kind, for the reason that by proper application and treatment, the effects are both constitutional and local, which insures rapid improvement.

The third class of troubles mentioned—those caused by internal infections—are usually characterized by inflammation, pain and frequently by unnatural discharges. The treatment described in the preceding paragraph should be used, and in addition internal treatment with one of the vaginal electrodes, preferably the insulating electrode. This internal application acts not only as a local antiseptic, but relieves inflammations as well. Applicators for administering internal treatment will be found in the back of this booklet. The duration of this should not exceed five or six minutes.

TREATMENT FOR MEN

With men, disorders of the reproductive organs seldom cause the physical distress as with women, but their influence on the mental condition of the man is frequently even more severe. Men become afflicted with these troubles largely through the same causes as women—lack of exercise, faulty nutrition, nervous conditions, etc. These are all too frequently aggravated by excessive use of tobacco, alcohol and sexual indiscretions.

The same general tonic treatment prescribed for women should be taken by men also. In addition to this, great benefit will be derived from daily treatment of the external organs lasting for from five to seven minutes. This should be given with a medium current, keeping the applicator in loose contact with the skin so that a stimulating tonic effect is obtained.

PROSTATIC TROUBLE

Prostatic trouble becomes apparent in nearly all men after they reach the age of thirty-five or forty. The prostate gland is a small gland completely surrounding the urethra at the mouth of the bladder. Poor circulation, faulty nutrition, etc., cause this gland to become inflamed and swollen, and pain and agony results. For permanent, lasting results, no other treatment will give the practically certain relief that comes from the use of Violet Rays. Prominent physicians report the most beneficial results in nine out of ten cases.

Treatment should be taken with either our special prostatic or insulated rectal applicators. By means of this, heat is brought in almost direct contact with the gland inside the body and relief is experienced at once. The circulation is improved, nutriment and oxygen are brought directly to the gland and the inflammation and pain disappears as if by magic.

External treatment shoud be taken over the entire lower spine. This stimulates and builds up the network of nerves running to and around the gland. A mild current should be used for about five minutes daily.

IMPORTANT

- ALWAYS insert applicator into the handle with a straight push and remove with a straight pull. NEVER TWIST.
- ALWAYS turn off switch at light socket when through using. The adjustment knob on the instrument is to regulate the strength of current—not to use as a switch.
- NEVER use the generator when in a bathtub or when connection is made from the body to the ground, by radiators, water pipes, lighting fixtures, etc.
- NEVER use generator on the hair when using at the same time a hair tonic containing a large percentage of alcohol.

NEVER oil the generator.

NEVER attempt to repair the generators. Should it get out of order notify us. We will not be responsible for instruments that have been taken apart by the user or by electrical repairmen other than our own.



Marvel No. A 1

The Marvel is a high-grade, low-priced, well-built, one-piece instrument intended for private use and is equipped with surface electrode. Space is provided in the case for other electrodes if the customer wishes to buy them.

The instrument is wound with our specially prepared impregnated wire, which makes it unnecessary to bake the secondary coil in wax. It is encased in our "grip-tight" indestructible handle and is equipped with seven feet of high-grade cord and separable plug.



Super Marvel No. 3

The SUPER MARVEL represents the greatest value ever offered in a violet ray high-frequency generator. The instrument is finely built throughout, is exceedingly well insulated and the secondary coil is wound with our specially prepared impregnated wire, which eliminates the possibility of wax running and lowering of efficiency which occurs in instruments where it is necessary to bake the secondary coil in wax.

The machine is encased in our "grip-tight" indestructible handle, equipped with seven feet of cord and separable plug. It is smaller in diameter than any other high-grade one-piece machine on the market and being perfectly balanced, is very easy to hold.

The violet ray discharge is powerful and highly diffused, without any disagreeable kick. The machine is packed in a beautiful silk lined carrying case and is equipped with three electrodes, the surface, comb and throat.

PREPARATION FOR TREATMENT

Surface treatments can be given in direct contact with the skin, and also through the clothing. As any clothing represents an interposed dry resistance, a treatment through the same would cause small sparks. It depends entirely on the desired effect, which way to treat. The instructions given in this booklet refer to the proper technique. If no sparks are desired any clothing covering the part to be treated must be removed.

Metallic objects as hairpins, corset steels, chains, should be taken off if

they cannot be avoided in the treatment.

FOR MILD TREATMENTS

Keep the applicator in close contact with the body at any part which

requires a mild treatment.

Start with the weakest current possible. Avoid the initial little discharge which occurs when you bring the applicator close to the body in making the contact. Make contact quickly and the initial discharge will not be annoying. Do the same when the treatment is finished. Remove the electrode quickly. This will save you the little sparks you may otherwise feel. By no means does this little spark, when making contact with the applicator and when removing it, hurt. If you think it does, it is imaginary. Just use common sense and a little judgment and you will find that even one-half inch of High Frequency discharge does not cause any pain.

ORIFICIAL TREATMENTS

All orificial electrodes must be lubricated before insertion. They should be properly sterilized. It is wrong to believe that orificial treatments are painful. There is, in fact, no other sensation than that of a beneficial warmth during the application. Orificial treatments should not last over five minutes. It is also advisable to move the electrode during the treatment just slightly so as to avoid its sticking to the mucous membrane. Orificial treatments require, for safety's sake and for better results, always two people, patient and operator. Always turn the current on after insertion of the applicator and turn the current off before removing the same. Use metal electrode No. S6 in the machine and apply to the metal cap of the orificial applicator to prevent breaking glass within the orifice.

TAKE CARE OF GLASS APPLICATORS

Cleanliness is of great importance. Inasmuch as the Violet Ray itself is germicidal in character, all applicators should, nevertheless, be kept clean so that no infection can be spread wherever several people may use the same Violet Ray Instrument. The wiping off of the electrodes on a towel or just rinsing in water is not enough. Use warm water and soap at least to guard against troubles. In cases of skin and scalp diseases, be exceptionally careful. All glass electrodes stand heating and can be boiled in water. If you intend to use some antiseptic solution for immersing the electrode, be sure that the mixture

is strong enough. Benetol, Lysol and other solutions are used especially with all orificial electrodes. Rinse these sterilized electrodes in warm water before using them.

DIRECTIONS FOR OPERATION

- 1. Insert the Glass Applicator into the handle of machine.
- 2. Attach the plug to the lamp socket.
- 3. Turn the current on: first, electric light switch; second, knob switch on machine.
- Turn the adjusting knob switch to the right to increase, or left to diminish the Violet Ray discharge.
- 5. In orificial treatments, the electrode should be first inserted into the orifice without inserting it in the instrument. Then place Electrode No. S6 in the instrument. Hold this metal electrode against the metal cap of the orificial electrode. Use lubricant on all orificial electrodes. (For physicians.)
- 6. In the indirect treatment, the party to be treated should hold the instrument, with metal Electrode No. S6 held in the other hand. The current should then be turned on and some second party, with either hand, fingertips or another applicator, draw the current to the desired spot of the patient's body. This method can be used for body massage, facial massage and scalp treatment.
- Do not attempt to repair instrument, if the necessity arises, write to the factory, advising of your difficulties and we will inform you what to do.
- 8. Do not use any violet ray instrument in connection with hair tonic containing alcohol.
- Any treatment should be started with a mild current and gradually increased to the required strength.
- 10. When a treatment is completed, do not forget to turn off the current at the switch, or, to be on the safe side, remove plug from the electric light socket. Damage arising from carelessness is not covered in our guarantee.
- 11. The standard winding for this instrument is 110 volts. If voltage is higher or lower than 15 per cent, special windings or series resistances must be used to prevent damage. We will supply all necessary information upon request.
- 12. Take care of the connecting cords. They should be kept dry and free from knots and twists and must be repaired when signs of wear are apparent.
- 13. Should you break the glass Electrode off in the machine accidentally, simply take a pair of long nose pliers and pull out the broken part, after disconnecting plug from current.



Marvel Special No. 5

Marvel Special No. 5 B

Same as above with cautery instead of condenser electrode

The MARVEL-SPECIAL is equipped with a double vibrating spring and tension bar which permits the finest regulation from a very low to a highly powerful diffused spark, without any disagreeable kick.

This instrument is equipped with surface, comb, throat, condenser and metal electrodes. The condenser electrode is used where a very powerful penetrating ray is desired, such as, in the treatment of rheumatism, etc., and the metal electrode is used for indirect treatments. The outfit can be furnished with a fulguration electrode instead of the condenser for beauty parlor use and is then known as the MARVEL-SPECIAL No. 5B.



Marvel Ozone No. 7

The MARVEL-OZONE represents the last word in violet ray construction. It is wound with our specially impregnated wire which eliminates heating, running of wax and consequent lowering of efficiency which occurs in instruments where the secondary coil is baked in wax.

This instrument is encased in our "grip-tight" indestructible handle and is highly insulated. Nothing but the very finest material is used. The workmanship is the finest that can be commanded and the outfit is without comparison.

This ozone instrument is equipped with all the most popular electrodes and a complete ozone attachment.

Especially for physician or family use.

It is equipped with surface, comb, throat, metal ozone generator complete with inhalent. Packed in a stunning silk-lined case.

VIOLET RAY TREATMENTS

The following are suggestions for the treatment of disease with Violet Ray which have been taken from cases where physicians have obtained excellent results. Not all cases can be cured with Violet Ray treatment alone, but in many cases it has been found very beneficial where medical treatments have failed entirely.

Abscesses

Keep electrode No. SI in contact with the skin. Move it gently over the whole affected area for 3—5 minutes. The current must be very mild. If applied to a developing abscess, its growth can be arrested.

Acne (Pimples)

Treat the entire surface for about 6 minute with Electrode No. S1. Where pustules are forming raise the electrode slightly to give a small spark for a short time. If many pustules are present treat through a thin towel or folded handkerchief. This has somewhat of a cauterizing effect and will soon cause the pimples to ripen and disappear. When the treatment through an interposed dry resistance, as a towel or handkerchief seems disagreeable, apply the applicator No. SI direct, but powder the skin with talcum powder. This usually suffices to create a dry surface and at the same time prevents the sticking of the applicator to a damp skin.

Alopecia (Falling Hair)

Use a weak current at first, and increase to a medium strength later on, with electrode No. S3. Pass the comb back and forth over the entire scalp for about 4 minutes every day. Use the same treatment for baldness due to sickness and for gray hair in order to restore it to its natural color. Do not use Violet Ray immediately after using hair tonic.

Anæmia

General applications to the naked surface of the body, which should be dried and powdered with talcum powder, over the chest, abdomen, back and spine, covering the whole as thorough as possible, increase the oxygenation of the blood. Treat with No. SI electrode for 4—6 minutes. The regenerative forces for the production of new blood cells are stimulated to greater activity by the High Frequency current. The oxygen carrying properties of the red blood corpuscles are increased. Ozone Inhalation with the Ozone Generator is very helpful. (Ozone Generator in back of book.)

Arteriosclerosis (Hardening of the Arteries, High Blood Pressure)

Daily treatments of about 5 minutes' duration will serve to lower the blood pressure. High Frequency currents have the power of making calcareous deposits soluble. Electricity seeks the path of least resistance, which, in the body, are the veins, as they contain the conductible carbonates and impurities which are most in need of purifying action. Apply electrode No. S1 or No. S2 over the body generally, using a medium current strength.

Asthma

Apply electrode No. S1 over the chest and No. S5 to throat glands for about 6 minutes. Use a strong current if it can be tolerated. Also use the Ozone Generator (in back of book). If treatment is taken when attack is near, much relief can be had and sometimes the attack can be entirely averted.

Ataxia

The current should be as strong as it can be tolerated for this treatment. Apply with electrode No. S4 or (S1) to the entire spine, over buttocks, abdomen and back legs. Daily treatments lasting about 10 minutes are necessary at first. They can be gradually decreased with the progressing improvement to about two a week.

Backache

Treat sore muscles in back through bath towel with Electrode No. S1 and cover the entire painful area. This will relieve all pain. As backache may have different causes, as weakness of the bladder or sexual organs, lumbago, rheumatism, kidney disease, it is of importance to treat the cause also.

Barbers Itch

Treat the affected area daily with No. SI electrode for about 5 minutes. Small sparks over the whole surface and towards the edges are very helpful. Treatment through a handkerchief is advisable. You cannot remove it in one treatment, therefore be patient.

Birth Marks

Applications with No. SI electrode repeated at convenience and often, using a medium current will, if used with judgment, remove them.

Bladder Disease (Cystisis)

Treat with electrode No. S1 or S2 with a strong current the area over the bladder for 5 minutes twice a day. The urine will clear fast. Relief is usually quick with strong current.

Boils

(See Furunculosis).

Bronchitis

Short sparks applied through a Turkish towel with electrode No. S2 over the chest and back, sufficient to produce a reddening of the skin. help wonderfully. Use the Ozone Generator for inhalations. (See back of book.)

Blackheads

A mild to medium current applied with Applicator No. S1 for 3—5 minutes at least once every day. This will soon remove blackheads. Use talcum powder or High Frequency lubricant over the area you intend to treat.

Brain Fag

Use applicator No. SI medium current over the forehead and eyes, back of head and neck and also down the spine for about 8 minutes. Relief is sure. Ozone/Inhalation for about 3 minutes will greatly help the condition and invigorate the whole system. (See Ozone Generator in back of book).

Breast Development

Cover the entire area to be developed in your treatment. Use electrode No. SI for about 5—7 minutes daily. Move it lightly over each side, from the neck downward and also from arm pit to arm pit, under each breast, pressing lightly upward.

Bunions

Use No. S2 or S18 electrode with medium current for about 6 minutes. Keep the applicator in contact with the skin but move it slowly over the entire painful area. It will relleve all pain.

Brights Disease

Apply with electrode No. SI over the region of the kidneys a strong current for at least 7 minutes every day. It can be noticed that the albumen in the urine quickly disappears.

Bruises

No. 51 electrode with mild or medium current applied to the swollen or painful spot brings immediate results. A few minutes contact and gentle moving, back and forth, is sufficient.

Burns

A gentle current for a short time, say about 2 or 3 minutes, taken 2 or 3 times a day and applied with No. SI alectrode does a lot of good and tends to relieve the pain.

Callouses

Use a strong current with electrode No. S1 or apply the fulguration electrode No. S20 Spark the skin directly for 1 or 2 minutes. Repeat as necessity requires.

Cancer

Mild forms of cancer are treated with a strong spark. Surgery is usually required in conjunction. Use electrode No. S20. Treatment should be taken only under supervision of physician. It is often used in connection with X Rays.

Canker

A medium current for one or two minutes should be applied with electrode No. S10, No. 32 or any suitable dental electrode.

Carbuncles

Use applicator No. S1 for 5-6 minutes twice a day over the carbuncle, keeping it in contact with the same. A medium current strength is sufficient. Electrode No. 9 is also very convenient.

Catarrh-Nasal

Rub electrode No. SI using a medium current, over the outer surface of nose and also the back of the neck, for about 5 minutes. Take Ozone Inhalation with the Ozone Generator (see back of book). Electrode No. S52 is successfully used in nostrils.

Cataract

Close e -lids and use electrode No. S18 with weak current for 4 minutes. Results are often surprising.

Chilblains

Treat the affected part with No. SI electrode for 6-8 minutes. Keep the applicator in contact and use a medium current.

Cold Extremities

Use a strong current with electrode No. S2 for about 5 minutes over the entire part. Produce a reddening of the skin. keeping the applicator in contact but moving it. Repeat, if necessary, 3 times a day.

Colds in Head

Apply No. SI electrode over nose, above eyes and the sides of face. Use a medium current about twice or 3 times a day and take also Ozone Inhalations for several minutes with the Ozone Generator. (See back of book). Ozone Inhalations are very beneficial in this case. Physicians use also successfully electrode No. S52 in nostrils.

Colds in Lungs

Treat the chest and back in the same manner as explained under Asthma. Take Ozone Inhalations repeatedly for several minutes. (See back of book).

Constipation

Apply a strong current with No. S2 over the entire abdominal area. Treat for at least 6 minutes, keeping the electrode moving at all times. Physicians use electrode No. S32, 33, 34, 35 and 36 to great advantage. These electrodes should be lubricated before insertion into the rectum. 5 minutes of orificial treatment is sufficient. Use S6 in conjunctions with rectal electrodes.

Consumption

The party to receive the treatment must be stripped of all clothing to the waist line. The skin of the trunk of the body should be dried and powdered with talcum powder all over. Use electrode No. S2 and apply the High Frequency Current to the chest. Start with medium current strength and increase to heavy discharge by and by. Move the applicator also towards the throat. This starts the secretory glands to action and improves the nutrient blood-supply through the tissues. Fill your lungs as much as possible by deep breathing. Do this repeatedly. Move from chest towards both sides of body and also gastric region. Then after 5—6 minutes of front application have the back treated. front application have the back treated. A strong current should be used over A strong current should be used over the shoulder blades, the spinal nerve centers and the kidneys. Ozone inhala-tion using the Ozone Generator (see back of book) is of the greatest importance. It is in tubercular con-ditions where Ozone Inhalations do the best work.

Corns

Take electrode No. SI or S18 and Take electrode No. SI or SI8 and turn it on its edge so that the spark passes from its edge instead from its face and hold it about ½ in. from the corn. Allow short sparks to pass into the corn for a few seconds only. Repeat this in a day or two. Applications with No. SI8, which is hollow shaped, direct over the corn in close contact for 2 or 3 minutes are very pain-relieving. pain-relieving

Deafness

Ear electrode No. \$10 or preferably \$56 gives excellent results. Use a mild current for about 3 minutes, inserting the electrode deep into ear. If the heating effect becomes too marked, interrupt treatment and repeat at convenience. Treatments twice daily are sufficient. Applications with No. \$1 to the back of the ear are also helpful,

Diabetes

If proper diet is observed and application with No. S1 or No. S2 are made over the abdomen, results are gratifying in a few weeks. Apply a strong current for about 5 minutes through a thin towel twice every day.

Dandruff

Shampoo the scalp before treatment, dry it thoroughly and apply a medium current with applicator No. S3 using it in the same manner as an ordinary comb. 3 to 5 minutes are sufficient. Repeat this treatment at intervals of of 2-3 days. Do not use any hair

Dyspepsia

Use electrode No. SI or preferably No. S2 over the region of the stomach. Daily applications of 6 minutes will in most cases show considerable improvement. A strong current is necessary. Decrease treatment gradually, do not entirely stop with them at once.

Earache, Ear Diseases

Insert electrode No. S10 and use a mild current for short periods of time. Applications to the back of the ear with No. SI assist this treatment greatly. It may in some cases be necessary to take hourly applications. The circumstances have to dictate this necessity. If heating effect during treatment is too marked, interrupt applications and repeat it at conveniapplication and repeat it at conveni-

Eczema

Lay a handkerchief or piece of thin cloth over the affected area and treat with electrode No. SI through the same with a mild current at first. Increase the current strength during the treatment if it can be tolerated. If the skin itches—lift the electrode slightly from the cloth. This will bring quick relief. Daily treatments lasting 3—5 minutes effect a cure in nearly all cases. Lay a handkerchief or piece of thin

Epilepsy

Use electrode No. SI in contact over the brain and electrode No. S4 along the spine, moving it up and down. A medium discharge for 5—7 minutes is sufficient. Repeat every other day.

Eve Diseases

Iritis, Redinitis, Atrophy of the Optic Nerve, Conjunctivitis, Trachoma, Glaucoma, Incipient Catarract, Paralysis of Ocular Muscles, Intra-ocular Hemorrhage have been successfully treated by the Violet Ray High Frequency current. Close eyelids and apply a mild current with electrode No. S18 No. S39 for short periods, not exceeding 3 minutes at one time. Repeat as desirable.

Falling Hair (See Alopecia)

Felons

Treat with No. SI electrode and a mild current in close contact daily from 4-6 minutes.

Female Troubles

Physicians use electrodes No. S13, S30 and No. S31. They should be lubricated before insertion. A medium current for 5 minutes is applied. Repeat treatment as circumstances require. During menstruation an excession of the same and the same and the same and the same area. sive flow of blood may result as High Frequency currents draw the blood. Turn the current on after insertion of electrode and turn the current off before removing the electrode to avoid

unecessary sparking. (See technique.)
Electrode No. S6 should always be
used in conjunction with orificial electrodes.

Fistulas

Use electrode No. S14-33-35-36 as indicated. Lubricate before insertion into rectum. Use a medium current for about 5 minutes daily. Electrode No. S6 should always be

used in conjuction with orificial electrodes.

Flabby Breast

Apply No. S1 electrode to whole surface of breast with medium current for 4-6 minutes every day.

Freckles

Cover surface with gauze. Use electrode No. S1 daily from 4—6 minutes with a medium current. Results are apt to be slow, therefore be patient.

Frost Bites

No. S1 applicator with a medium current strength, allowing short sparks to pass to the affected parts for about 3—5 minutes every two or three hours brings lasting results in a short time.

Furunculosis

Boils, treat with No. SI electrode.
Mild or medium current strength.
Inflammation ceases quickly.

Goitre

Many cases yield to application with No. S5 Electrode, using the strongest current that can be tolerated. It can be treated direct by making contact with the electrode. Sometimes it is treated through gauze. The later way is more recommendable. Do not treat longer than 4 minutes at a time every day. Results are usually not apparent until after the 10th or 12th treatment.

Gout

Apply electrode No. Si to painful area with medium current keeping the applicator in contact but moving it slowly about. The pain may increase at first but relief will be felt after a few treatments.

Gray Hair

The natural color of hair can often be restored by patient treatments with Electrode No. S3. See under Alopecia. Sometimes 2 months are required for first results. Keep the scalp clean. Use a current of sufficient strength for good stimulation every day once or twice.

Grippe (Influenza)

Cover the spine and solar plexus with applications by No. S1 electrode. Also treat over the eyes and sides of nose. Treatments to spine and solar plexus should be made through a turkish towel for 5-7 minutes and repeated twice a day if necessary. Intra-nasal applications of short duration with Electrode No. S10 and a weak current are often given by physicians in addition to the mentioned treatment.

Hay Fever

Apply electrode No. SI over the nose and along spine with medium current for 5 minutes and No. S10 or No. S28 in nostrils for short period of time. Applications should be of short duration but often repeated. It is advisable to anticipate the trouble and to begin treatments before attacks are expected or discomfort felt. Ozone treatments are of the greatest benefit.

Headaches

They are from varying causes. lief is not felt by applying No. SI elec-trode to the seat of the headache, cover the stomach and spine by treatment, using a medium current for 5—7 min-

Hives and Rash

Use electrode No. SI with medium current strength to affected area. Use High Frequency Lubricant before applying the elctrode. 3-5 minutes should be sufficient. Repeat daily,

Infantile Paralysis

If this disease leaves muscles feeble and weak High Frequency applications help wonderfully well to make them grow again. Use No. SI electrode with medium or strong current for 5—7 minutes. Apply in direct contact and move the applicator over the entire area to be developed.

Inflammations

Can be reduced and relieved by application with applicator No. S1. Move it slowly over the inflamed area, keeping it in close contact. Use a medium current strength for 5—6 minutes.

Influenza

(See Grippe.)

Insomnia

Cover the back of the head, neck and eyebrows by application with electrode No. Sl. A strong current is essential in treating this ailment. 5—7 minutes should be the average length of treatment.

Impotence

The most beneficial way of treating this condition is by the use of the prostatic tube No. S-9, with plenty of spark. Use surface electrode No. S-1, slightly raised over the area of the genital and spine for 5—7 minutes daily. Special information on weakness of the organs of sex is given elsewhere in this book.

Leucorrhea

Follow the directions given under female troubles. Also use electrode No. S4. moving it up and down the spine slowly. A strong current must be used for about 5—6 minutes every day. This treatment should only be an adjunct to medicinal treatment and physician's care.

Lumbago

Since the object is to relieve pain, treat the painful areas with Electrode No. S2 until all pain is dispelled. Repeat treatment whenever pain appears until cured.

Massage

Let patient hold metal Electrode in one hand, turning on current after it has been grasped. Masseur's fingers will draw spark to point massaged.

Mumps

Treat swollen parts. Use Electrode No. S1.

Nervousness

Treat spine, back of head and neck, immediate results will be felt.

Neuralgia

Apply to seat of pain, raising the Electrode occasionally to produce spark.

Neuritis

The first few treatments usually increase the pain after which relief is felt, and the current may be increased and a short spark given. Apply at the seat of pain. Use electrode S1, S2.

Obesity

Apply electrode No. SI to affected parts and treat consistently. Begin as indicated and increase current as strong as tolerable. Fat will decrease and redistribute, giving greater comfort.

Pains

The pain-relieving quality of the High Frequency current is wonderful. Apply electrode No. SI to the seat of pain until relief is felt. Close contact is best. Medium current strength and sometimes strong currents are advised.

Paralysis

Apply No. SI electrode along the affected muscles. A strong current is necessary. Keep the electrode moving. Treat for about 6 minutes at a time. Lubricate the affected part so that the electrode slides easily. Sparks through a turkish towel help quickly. Use this method every day.

Phehisis

(See Consumption.)

Piles (Hemorrhoids and other rectal dieases)

Are treated best with applicators No. S14, No. S35, No. S33, No. S34, No. S36. Lubricate electrode before insertion with High Frequency lubricant. Use a medium current for about 3 minutes not more than once a day. Electrode S6 should always be used in conjunction with others.

Pimples (Acne Vulgaris)

(See Acne.)

Pleurisy

Use preferably electrode No. S2. Cover the back and the chest by a vigorous treatment through a turkish towel until the skin becomes quite red. Keep the electrode moving and treat for about 8 minutes. High Frequency is an adjunct only in cases of serious sickness and nobody should fail to consult the proper authority.

Pneumonia

Ozone inhalation, repeated often with the Ozone Generator (see Electrode Catalogue) is very beneficial. Otherwise apply the same treatment as given under Pleurisy. Remember that High Frequency as an adjunct can help greatly and often do wonders, but in all grave diseases the consultation of an authoritative physician should and must be tative physician should and must be resorted to.

Poison Ivy

Apply High Frequency lubricant first. Use No. SI or No. S2 electrode edgewise so as to cause plenty of sparking over the whole affected area. Lift the applicator here and there and treat with a strong current for 3—5 minutes. Relief is sure and surprising.

Pyorrhea

Applications with electrode No. S10 or 558 with a weak or medium current help greatly to re-establish a healthy condition of the gums. A removal of deposits is necessory, however, by mechanical and surgical means in order to fight this disease. A dentist must be consulted. High Frequency treatments promote proper nutritional improvements and in addition to this have antiseptic and antitoxic properties.

Red Nose (Acne Rosecea)

Use preferably electrode No. SI and apply only short periods, say about 2 minutes, small sparks by holding the electrode edgeways or lifting it somewhat about an eighth of an inch. The object is to destroy the enlarged veins. The treatment must not be carried too far at one time. It should be repeated as the condition permits. Several days' rest between treatments may sometimes be advisable.

Rheumatism

Strong currents have to be used in all cases of Rheumatism. This disease responds quickly, especially cases of the muscular and chronic articular form. In acute cases of this ailment the results are slower but nevertheless satisfactory. The affected parts should be treated until all pain ceases. Changing the position of parts or extremities being treated will likely expose other parts requiring treatment. Put muscles on the stretch and use High Frequency current long enough to dispell all discomfort. Applicator No. S2 is especially recommended for these treatments. Repeat these applications as often as pain reappears. 10 minutes use of the instrument at one time is usually enough. The applicator can be used in close contact but most cases require treatment through clothing or several layers of a towel.

Ringworm

Use electrode No. S1 and apply short sparks for several minutes two or three times every other day. A medium current is sufficient. Move the electrods so as to cover all the affected area.

Scalp Treatment

Dandruff, falling hair, gray hair, baldness, itching scalp, etc., are very successfully benefited by Violet Rays. There is no question that the Violet Ray rep-

resents the most scientific method of treating the scalp. Its beneficial value is beyond all doubt.

Violet Rays produce a normal and healthy scalp, revitalize impoverished hair, restore its natural lustre and fullness. They bring in new hair by caus-ing additional nourishment to flow to the dormant papilla.

Use electrode No. S3 every day one to three times for several minutes. Do not use any hair tonic. Violet Rays constitute the best hair tonic themselves.

In baldness the Violet Ray proves to be of a very welcome and effective as-

sistance to restore the natural growth of hair. The results are very satisfac-tory. Conscientious use of Violet Ray High Frequency Current and patience have here, as in many other instances. surprised many people.

Gray hair has been restored to its original color and beauty in many cases. We do not claim too much by saying that scalp applications with electrode No. S3 are the only reliable means at the present time to stimulate and assist

natural growth of hair.

Scars

The object is to destroy the scar tissue so that new tissue may form. Use therefore a strong spark. Apply either electrode No. 1 edgeways, or still better use elctrode No. S10 with the necessary care. A few minutes, sometimes only seconds will suffice in cer-tain cases where the scar is small and not too old Judgment should be used.

Sciatica

Is an affection of the great sciatic nerve trunk. Its cause is found in neuralgia and also sometimes in rheu-matism. The sciatic nerves run down the thigh from hip to knee. They lie near the bones deep under the heavy muscles. Sometimes they become so in-They lie flamed and tender that even the slightst pressure causes an extreme pain. applied counter-irritating discharge through the clothing or over the painful area with electrode No. S1 or No. S2 wil bring quick relief.

Skin Disease

In all skin diseases the High Frequency spray (small sparks) is most success.

fully applied. Electrode No. SI is sufficient in nearly all cases. It should be passed rapidly back and forth over the affected area for several minutes. If the skin is moist, talcum powder should be used so that the electrode will not stick. Another easy method is to spread gauze over the part to be treated. This will enable the user of the instrument to move the electrode smoothly and at the same time does not remove it far enough to cause an unpleasant spark.

Where itching is very marked longer and sharper sparks are best. Apply these only for shortperiods. Epithelicoma, Lupus and Chronic Ulcers can be

oma, Lupus and Chronic Ulcers can be treated in the same manner.

Stiff Neck and Joints

Apply in the same manner as explained under "Neuritis." Use a longer treatment if necessary. In cases of Torticollis (stiff neck) rub the No. SI electrode frequently along back of ear and down the neck on both sides for 3—5 minutes.

Sore Feet and Stone Bruises

Applications with any suitable appli-cator in close contact with the skin bring quick relief. Use High Frequency lubricant and treat for several minutes.

Sore Throat

Electrode No. S5 is best suited for external throat applications. High Frequency lubricant should be used and the electrode moved up and down the throat in close contact, covering all parts well for 5 or 6 minutes, with a medium or strong current; repeat 2 or 3 times a day in some obstinate cases.

Sprains

Close contact applications with a surface applicator prove helpful. Use a medium current and in cases of long standing use small sparks or treatment through towel. 4 or 5 minutes usually suffice. Repeat as circumstances indicate.

Lonsilitis

Use No. S5 electrode and apply in the same manner as explained under "Sore Throat. Physicians use electrode No.

S58 internally with fine success. Ozone inhalation with Ozone Generator (see Electrode Catalogue) assist greatly.

Luberculosis

(See Consumption.)

Ulcers

Apply a strong current with No. S2 or No. S5 electrode for 5 minutes in con-tact, liftnig the applicator once in a while to produce sparks of at least one-quarter inch. Repeat this treatment every day.

Warts

Take electrode No. 1, hold it about one-eighth or three-sixteenths inch from warts and allow sparks to pass from the edge of the glass. For the best re-sults use electrode No. S20. Let the Platinum point rest directly on top of the wart and use a weak current. Pass a stronger current through the deeper crustation. A few seconds are usually sufficient. Wait 2 or 3 days for results and repeat operation if necessary.

Whooping Cough

Apply No. SI electrode in the same way as explained under "Asthma" and use also Ozone Inhalation with the Ozone Generator. (See Electrode Catalogue.)

Writers' Cramp

Apply No. S1 electrode with medium current for about 6 minutes from finger tips along back of hand and arm to shoulder and spine. This treatment can also be made through a towel if it can be tolerated.

Wrinkles

Are comomnly caused by using a given set of facial muscles more than normally. They can be removed by applying Electrode No. SI right over them with a rotary, massaging movement. High Frequency current revitalizes tired muscles and arrests the blighting marks of time.

For those who desire more exhaustive information on High-Frequency currents we recommend:

N. M. Eberhart, M. D., Ph. D., D. C. L., Manual of H. F. Currents, \$4.00.

We have copies of the above Manual in stock.

Violet Ray Electrodes
No. S-1 Surface electrode\$1.00
No. S-2 Large condenser electrode, deliver strong current for Rheumatism, Lumbago, etc
No. S-3 Comb electrode for scalp\$1.50
No. S-4 Spinal electrode
No. S-5 External throat electrode, also excellent for the neck, arms and limbs \$1.00
No. S-6 Metal handle used for giving indirect treatments\$1.25
25

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No. S-9 Insulated prostatic electrode\$2.00
No. 3-7 Insulated prostate transfer of the second transfer of the se
No. S-10 Plain internal throat electrode, or ear electrode \$1.00
No. S-56 Insulated ear electrode
No. S-56 Insulated ear electrode\$2.00
No. S-58 Insulated internal throat electrode
110. 5-70 Insulated internal throat electrode
No. S-13 Plain vaginal
No. S-30 Insulated vaginal electrode, large diameter\$2.00
No. S-31 Insulated vaginal electrode for generation of ozone within the vagina
No. S.14 Disinguistry
No. S-14 Plain rectal electrode, small diameter
No. S-33 Plain rectal, large diameter
26

No. S-32 Insulated rectal, large diameter
No. S-34 Insulated rectal, medium diameter
No. S-36 Insulated rectal electrode, small 2.00
No. S-18 Eye electrode, also used for corns
No. S-39 Double eye electrode 2.00
No. S-20 Fulguration electrode for removal of warts, moles, diseased growths, etc
growths, etc
No. S-38 Hollow surface shaped, generates ozone within cavity and fits
nicely over certain parts as cheekbones
P
6
No. S-41 Dental Electrode for Gum treatment, Right side of Jaw \$2.00 No. S-42 Dental Electrode for Gum treatment, left side of Jaw 2.00 No. S-43 Dental Electrode for Gum treatment, left side of Jaw 2.00
No. S-45 Dental Electrode for front Gum treatment
No. S-46 Insulated Electrode covers small
A COUNTY OF THE PROPERTY OF THE PARTY OF THE
No. S-49 Dental Abscess Electrode \$1.00
No. 50 Insulated Urethral Electrode
27



OZONE GENERATOR

This instrument generates enotmous quantities of Ozone, which is purified by passing through the inhalant which is provided. A piece of cotton is saturated with this inhalant and placed in the receptacle. Squeezing the rubber bulb forces the Ozone bubbles through this mixture and is inhaled in the form of a vapor.

It should be inserted the same as any other electrode, and the machine supported on a table. The hand must be in contact with the glass stem of the generator while in use.

The Ozone permeates every cell in the lungs, destroying any germ life and soothing the inflamed tissues. For
Anemia, Hay Fever, Coughs, Catarrh, Asthma, Bronchi,
tis, Insomnia, Nervous Debility and Tuberculosis of the
Lungs, there is no better treatment.

The treatments are exceedingly agreeable and remind one of a trip to the pine woods.

Price complete with all the attachments and one bottle of inhalant.

No. S-28	Ozone generator, complete with 1 oz. bottle of inhalant,	
	nose and mouth-piece and bulb\$10.00	
	Extra Inhalant 1.00	ļ

The Eastern Laboratories, Inc., will be pleased to furnish, upon application, any special electrodes that may be needed.

NOTE: Damages arising from carelessness are not covered by our guarantee. If instructions are properly followed the instrument will last indefinitely.

Unless otherwise specified all machines will be furnished to operate on standard voltage of 110 to 120 volts. Machines can also be furnished to operate on 220 volts and 32 volts.

Marvelite LAMPS



We cannot, too strongly, recommend the use of our Therapeutic Lamps in connection with the violet ray treatment. The rays developed by these lamps penetrate deep into the flesh, greatly stimulating glandular activity. The opening of the pores, due to the heat rays, give the high frequency current ready access to the part in treatment. The combined actions of the heat, light and high frequency current, have a pronounced germicidal effect and is especially recommended for pimples, boils, eczema, barber's itch and such conditions which involve the skin.

On the following pages we have illustrated two types of lamps, both of which have been successfully used in connection with the violet ray.

The lamp should be permanently fastened and is preferably mounted on one of our telescoping and collapsible stands. This will hold the lamp absolutely rigid and in the desired position, leaving the operator or patient free to apply the violet ray machine.



Marvelite No. 99 List Price \$10.00

The Marvelite No. 99 Therapeutic Lamp has been carefully designed, both mechanically and electrically and embodies many unique features. The entire lamp is made of one piece of aluminum, insuring both lightness and unusual strength and ruggedness. The reflector has been so designed to eliminate the customary focus point and insure a beam of parallel rays of uniform intensity over the entire area.

The Marvelite No. 99 is equipped with 7 feet reinforced cord and one 260-watt carbon lamp.

Marvelite Stand\$6.00



Marvelite Junior No. 97

(Red, White and Blue, 16 C. P. Lamp)

List Price \$7.00

The Marvelite Junior, No. 97, complete with seven feet of reinforced cord and three 16-candle power lamps, red, white and blue.

The Marvelite Junior Therapeutic Lamp is constructed of highly polished aluminum, extremely light in weight, making it an ideal lamp for beauty parlor work and home treatment. Aside from its therapeutic value, this lamp is of great assistance in hair drying, mud packs, oil shampoos, bleaching, etc.

The Marvelite Junior No. 98, same as No. 97, but equipped with one 100-watt carbon lamp.

List Price \$7.00

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Violetta Model No. 311	
Manufactured by Chicago Electric Scientific Con	mpany, Chicago, Ill.
Contents: 1 High Frequency Generator. Electrodes Nos.	1 *
WARNING Do not use this high frequency generator while in any part of the body is in contact with water or pl	
Keep generator dry. Do not allow treatment to last more than ten mithan ten seconds in any one particular place. Ke stant motion during course of treatment. Never irritates the skin or tissue in any way.	eep electrode in con-
Do not use any solution on the hair or body containinflammable substance prior to or while using he ray. The electrical sparks emitted at the electrical volatile, inflammable substance.	igh frequency violet
Local application of high frequency currents are (1) acute inflammatory processes such as acute no (inflammation), acute arthritis characterized by	on-draining cellulitis

- (2) Any condition in which there is a tendency to *hemorrhage, such as gastric ulcer.
- (3) In those areas in which the appreciation of heat has been impaired or lost, as in certain peripheral nerve injuries. It is also not to be used in any serious disease or injury unless recommended by a physician, or for malignant or suspicious growths such as cancer, etc.

Consult your physician for treatment of diseases.

INSTRUCTIONS FOR USE OF THE VIOLETTA HIGH FREQUENCY GENERATOR

The proper application of the Violetta is very simple, if the directions given below are strictly adhered to.

- (1) Insert the electrode in the nozzle of the generator. Do not push the electrode into the opening, but give it a twisting motion, thereby eliminating much pressure on its delicate glass structure. On removing the electrode, follow the same directions.
- (2) Insert the plug into the electric light socket, then turn the control knob on the other end of the generator. To the right applies an increase to the current. To the left decreases and shuts it off. Be sure current corresponds to voltage on nameplate.
- (3) Apply and remove electrode to and from the body with a quick motion. Thus applied and removed, the "spark" or slight tingle felt with a slow application, is eliminated. The electrode may also be applied to the body before the current is turned on and removed after it is turned off.

- (4) The electrode should not be held still while in contact with the body, but should be moved slowly over the area being treated. Do not use pressure on the electrode. Simply move back and forth with a dusting-like motion.
- (5) Treatment may be through the clothing or directly upon the skin. If applied through the clothing, regulate the current with the knob at the end of the generator, to the thickness of the clothing and for comfort. Thick clothing or covering causes a longer "spark" and a counter-irritant effect.
- (6) In the indirect method of treatment, the person who is to receive the treatment holds the metal electrode in his hand while the electrode is inserted in the high frequency generator. A second person turns the current on the generator, then applies one of the glass electrodes to the area to be treated by holding in his hand the metal cap of the glass electrode. The second person actually draws the current from the body of the first. This method is generally used in very mild applications particularly for persons who are extremely nervous. It may be used for body massage, facial massage and scalp treatment.
- (7) Do not operate instrument longer than ten minutes without twenty minutes intermission for cooling; otherwise, overheating of the coils may result in damage to the generator.
- (8) Do not use any tonic containing alcohol or other inflammable substance on the hair or any lubricant on the body containing same, in connection with the treatment as a spark from the generator might ignite any highly inflammable substance.
- (9) Start the treatment with a mild current and gradually increase. The further the knob is turned to the right, the stronger the current.

- (10) When through using the appliance, be sure to turn off the current at the switch, or better still, detach the plug from the socket. The current is not off the generator when the adjusting knob is turned completely to the left, or off. Although no current is passing into the electrode, yet the current is passing through the coils and they will become overheated. Damage resulting from this cause is only the result of carelessness and is not covered in our guarantee. The safest method is to unscrew the plug from the socket when the machine is not in use.
- (11) Electrodes may be washed with soap and water and sterilized by the use of any recognized antiseptic solution. Be sure to remove electrodes before washing in water. Do not boil electrodes in water or subject them to excessive changes of cold or heat.

USE OF ELECTRODES

The general electrode is used for the face and body and any surface application. It is constructed with a lead in wire which increases the intensity of the current to cover a wide range of applications.

The comb rake electrode is used for stimulating circulation of the scalp.

The throat electrode is designed to fit over the neck and may be used to relieve congestion which so frequently arises after exposure to a draft from an open window or from an electric fan.

The eye electrode is smaller than the general electrode and milder. It is designed to offer convenient applications about the eyes. Can also be used on the face.

The metal electrode is designed to conduct the current directly from the generator to the body. (See paragraph 6).

Electrodes may be purchased separately.

Violetta Model	No.
Manufactured Chicago 4	by Electro-Technic Products, 4602 Montrose Ave.,
Contents:	
High Freque	ency Generator. Electrodes Nos.
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while any part of any kind. I Do not allow to han ten second stant motion d	s high frequency generator while in the bath tub or tof the body is in contact with water or plumbing Keep generator dry. The eatment to last more than ten minutes and not more dis in any one particular place. Keep electrode in contaring course of treatment. Never use electrode if it in or tissue in any way.
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No. 413 A practical, general purpose kit that includes the Violetta generator with the No. 1 general electrode, the No. 3 comb electrode and the No. 5 throat electrode.

Price \$16.10

Packed in a sateen lined case with snap locks and handle, with individual compartments for electrodes. Size approximately 12x9x3.

Safe, easy operation

gives you complete peace of mind

A precision, scientific electrical instrument, the generator of the Violetta set and the accessories used with it are approved by leading laboratories.

The generator has been perfectly balanced so that it handles without effort, and the ribbed hand grip offers the double advantage of providing both ventilation and a firm hold for the fingers.

An exclusive patented arrangement of the vibrator mechanism thoroughly insulates the adjusting knob and screw—a shock proof feature every operator will appreciate. Special Cesco construction also keeps the contact points in perfect alignment, so that adjustment of the flow of current is smooth and completely controlled at all times.

Violetta kits are made by the Electro-Technic Products Company, makers of technical electrical instruments for the professions and for industry, with a back-ground of years of successful experience.



No. 414 This deluxe professional kit offers a very complete set of accessories for the treatment of many common conditions. It includes the Violetta generator and the following electrodes: No. 1 general, No. 2 condenser electrode for concentrating treatments. No. 3 comb electrode for scalp and the No. 20 full duration electrode for the removal of warts, corns and callouses.

Price \$20.90

Packed in sateen lined case with snap locks and handle for carrying. Individual compartments for all electrodes. Size, approximately 13 1/2x9 1/4x3 1/4.

The CESCO High Frequency Generator Vacuum Tester



HE CESCO high frequency generator is being used extensively by the largest lamp, radio tube, X-Ray and Neon sign Manufacturers in the country. In fact it is indispensable wherever exhausting of medium or highly evacuated glass containers is required. It may be carried from one room to another, weighing only 1½ pounds, 2 inches in diameter and 10 inches long.

The CESCO high frequency generator may be attached to any light socket. No batteries or transformers are necessary. The entire mechanism is contained in the molded bakelite handle. The mechanism consists essentially of an interrupter coil vibrating spark gap, condenser and Tesla or resonator coil. The regulation of the intensity of the out-put current is provided for by an adjusting knob at the end of the instrument. A one inch spark of high intensity and high frequency is delivered at the metal terminal. Any metallic object or ground may be employed for the second terminal to complete the circuit.

The CESCO high frequency generator replaces the ordinary spark coil and batteries in nearly every case of laboratory, commercial and educational use. Owing to the nature of the high frequency current, there is no danger of receiving a severe shock, accidently from this instrument, as from other high potential coils and transformers. It may be readily handled without fear or apprehension.

While this high frequency generator was primarily designed for testing vacuums and locating microscopical leaks in glass containers and pumping systems, owing to its portability and low cost a number of new uses have been found. It is an indispensable part of equipment for any technical, scientific laboratory or school.

The following are some of the applications of the generator. Determining the degree of vacuum by various colored discharges. Gaseous contents of certain types of vacuum and radio tubes. Locating microscopical leaks in glass seals and evacuating systems.

Educational use:

Conductivity of electric currents in a partial vacuum. Illumination of neon glow tubes.

Effect of different vacuums on the color of the electrical discharge. Generation of ozone by electrical discharges.

Phenomenon of corona discharges.

The non response of the nervous system to high frequencies, etc.

EXTREMELY USEFUL FOR TESTING RUBBER, GLASS & OTHER NON-METALLIC LININGS OF VATS, TANKS, ETC.

ELECTRO-TECHNIC PRODUCTS

4602 MONTROSE AVENUE

CHICAGO 41, ILL.

This tester is also useful as a violet ray generator when used in connection with the electrodes shown on other side.



Violetta Electrodes



All Violetta electrodes are produced in the glass blowing department of the Electro-Technic Products Co. The forming and sealing work is under the direct control and supervision of technical experts. These electrodes are made to meet the rigid specifications and are guaranteed to represent the finest workmanship in the art of blown glass.

A Violetta electrode can always be identified by the diamond trade-mark on the cap.

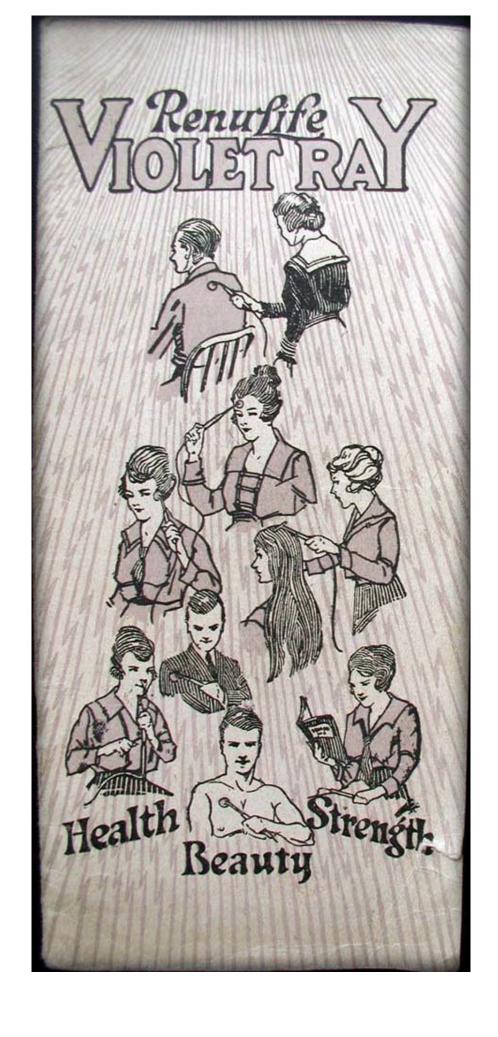
No. 1—General Electrode. Used for facial and body treatments and for any surface application.	\$1.00
No. 1-A—Double Duty Electrode. A surface electrode producing a strong current for energetic stimulation and also a mild effleuve for light treatments	2.50
No. 2—Condenser Electrode. Condensing the current and pro- ducing a strong even flow, generating electrical heat which is very desirable in deep seated cases	3.00
No.3—Comb-Rake Electrode. Used for all scalp treatments. Stimulates the hair roots and cells.	
No. 4—Special Electrode. For spinal treatments, fitting over both sides of the vertebrae	
No. 5—Throat Electrode. For external application.	
No.6—Metal Electrode. For indirect treatment. Patient holds metal electrode in generator. Second person draws current from patient by holding glass electrode in their hand, over q ea to be treated. Very mild and pleasant method. Specially recommended when using Cautery electrode.	
No. 7—Special Vaginal Electrode. Perforations permits the generation of ozone within the vagina	
No. 8—Vaginal Electrode. Similar to No. 7 but without perfora-	
No. 3—Prostatic Electrode. Designed to fit directly over the prostate gland	
No. 9-A — Prostatic Electrode. An exclusive Cesco design, su- perior to any other. Length just right to reach prostate gland. Shaped for the most comfortable position and insulated to the tip	
No. 10—Internal Throat Electrode	
	Section 1

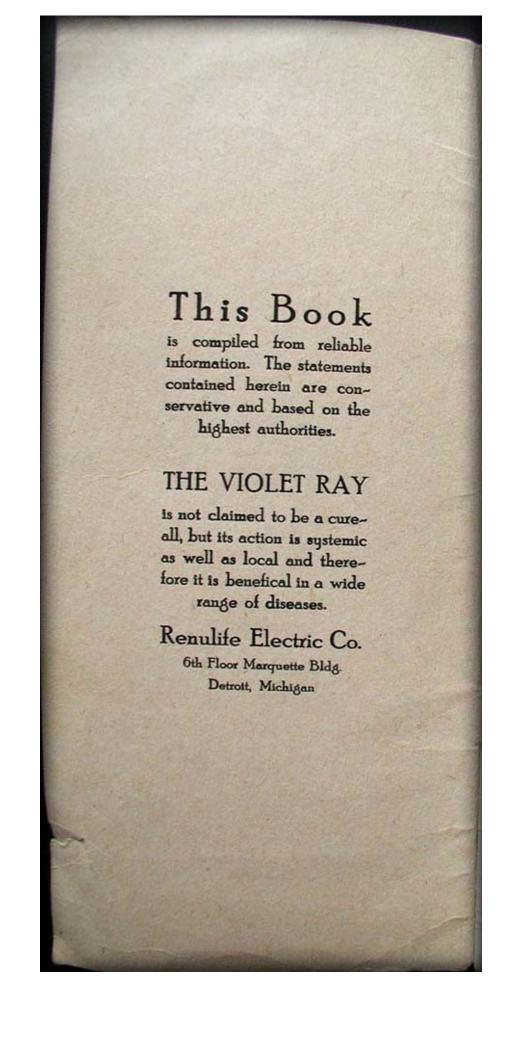
No. 11—Nasal and Ear Electrode	2.00
No. 11-A—A special Ear Electrode. Insulated to the tip and fits in the ear passage	2.50
No. 12—Urethral Electrode	2.00
No. 13—Plain Vaginal Electrode	1.50
No. 14—Plain Rectual Electrode	
No. 15—Plain Throat Electrode	1.50
No. 16—Plain Nasal Electrode	1.50
No. 17—Plain Urethral Electrode	1.50
No. 18—Eye and Face Electrode.	1.00
No. 19—Spatula or Tongue Electrode	1.50
No. 20—Cautery Electrode. Made with a special wire sealed in the glass and used for removing warts, moles and growths. See electrode No. 5	
No. 30—Special Metal Electrode for Reflex Action. Used to stimulate any muscle or nerve, especially the nerve centers at the spine	1.75
No. 41—Dental Electrode Concave Electrode	.00
No. 42-Dental Electrode. Similar to No. 41 but concave	.00
No. 44—Small Cataphoric Electrode. Medicated cotton to be placed in end and solution is driven into tissues by the current 2	.00
No. 45-Dental Abcess Electrode	.00
No. 50-Dental Electrode. For outside gum treatment	00
No. 53—Dental Electrode. For treating inside of gums, right side2	00
as a property of the state of course, left side 2.	UU

ELECTRO-TECHNIC PRODUCTS CO.

4602 WEST MONTROSE AVENUE

CHICAGO, ILL.







Health—A Priceless Asset

To say health is priceless may seem an over-estimate of its value to those who have never felt its lack. But let health be once lost and even the most miserly would give the wealth of kings, if they had it, to recover this precious thing.

Fortunately, we are living in the day of modern science—that wonder-working hand-maid of nature, and our lot, no matter how hard, holds bright hope of relief as compared to the darkness and suffering of the days of old.

It is now well known that nature herself, is a most wonderful physician. She welcomes, appreciates and responds quickly to any intelligent aid extended.

A method of treatment therefore, which actually works with nature, assisting in re-establishing correct and normal relation between functions of the body and working toward that result without disturbing any sound and healthy conditions which already exist, and without causing harmful after-effects—is really the only safe road to the recovery of health.

Drugs are far from ideal. So often their use leads only to disappointment—or worse.

We believe every person suffering from any ailment for which Violet Ray Treatment is recommended is entirely justified in expecting relief and permanent benefits from the use of our Renulife Violet Ray High Frequency Generators. These instruments render simple, safe and effective (even in the hands of the most inexperienced person), this great corrective agent.

The mighty forces of electricity are harnessed in a health-giving administration, as pleasant and as safe as sunshine—yet powerfully effective. This scientific modification of electric current works always with nature, never in opposition.

We believe that we may be pardoned for taking pride in having designed and produced a Violet Ray apparatus for self-treatment, procurable at a price within the reach of all—an instrument that makes possible persistent daily application. This continuous treatment, in many chronic cases, is more sure of results than less often applications which might be given by a specialist employing the most expensive apparatus.

We are glad to have had a part in what we consider (and our opinion is confirmed by the statements of hundreds of appreciative people), a most valuable contribution to the general health, by having made available to people in their homes, this scientific, sensible and effective method of maintaining and regaining Priceless Health.

Renulife Electric Company

Originators and Manufacturers of Renulife Violet Ray Generators

Copyright 1919 Renulife Electric Co., Inc.

High Frequency Violet Ray Simply Explained

High Frequency electric current has an entirely dif-ferent effect on the human body than the crude, shocking results produced by ordinary current. There is no ing results produced by ordinary current. There is no shock, pain nor muscular contraction from High Frequency application. This is due to the change which has been made in the current by conducting it through has been made in the current by containing it through a series of special coils and other units which make up the Violet Ray Generator. The same current that is the Violet Ray Generator. The same current that is brought into the house for lighting and to furnish power is completely modified. Its volume or amperage is reduced to a low measure, while the pressure or voltage is tremendously increased and the oscillation raised exceedingly high. The result is that when this current is applied to the human body our nerves are insensible to the electric waves because of their enormous rapidity of movement. The High Frequency current is pleasant and painless, yet penetrative and effective.

High Frequency is applied by a vacuum glass attachment called the "electrode" in which the High Frequency current shows in a violet colored glow. From this is given the common name of Violet Ray.

The Physiological Action of Violet Ray

The Violet Ray acts on the blood, circulation, nervous system, cells and tissues.

There is some intimate relation between electricity and life itself. Science has not yet exactly defined this relation, but the evidence of its existence is accumulating as the world's knowledge increases. Some have gone so far as to declare that "electricity is life."

High Frequency current—Violet Ray—works in harmony with and to the benefit of life cells. Wonderful demonstrations have recently been made showing that even vegetation responds in an astonishing manner to this force. Gardens have been charged with High Frequency current, causing the germinating life in the seed to spring up with a rapidity of growth and luxu-riant development most remarkable. Processes for the employment of High Frequency in plant culture are now perfected for commercial use.

The physiological action of Violet Ray applied through the glass vacuum electrode may be summarized: Benefits all nutritive processes; the oxygenation of blood and tissue and increased elimination. To these primary results is attributed the great potency of the Violet Ray as an agent for relieving and eradicating human ills and restoring normal, healthy

functioning of disordered parts.

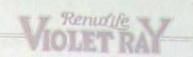
There is no painful sensation produced when the vacuum tube is held firmly in the hand or directly in contact with the skin of the body. Some heat is noticeable. When removing the tube away from the point of contact a stimulating spark is produced.

Summary of Vacuum Tube Effects

- Increase blood supply to a given area.
 Increase oxygen in the blood.
 Increase elimination of waste products.
 Increase bodily heat without a corresponding rise in tem-

perature.

5. Locally germicidal.
6. Mild sparks stimulate or soothe according to length and character of application.
7. Strong sparks are caustic.
8. Sparks to the spine increase the arterial tension.
These effects while essentially local, are not necessarily so. The current traverses the body in all directions from the point of entry, current traverses the body in all directions from the point of entry, but is, of course, most intense and pronounced at the latter point.



Violet Ray High Frequency for Following Ailments

Abscesses Anemia Asthma Arteriosclerosis Baldness Blackheads Brain Fag Bronchitis Bunions Catarrh Circulatory Disorders Colds Chilblains

Dandruff Deafness and Ear Diseases

Eczema Enlarged Prostate Pain in Abdomen and Facial Neuralgia Chest Falling Hair Paralysis Female Complaint Piles Goitre Pimples Gout Pyorrhea Hemorrhoids Rheumatism Hay Fever Scars Infantile Paralysis Sciatica Insomnia Skin Diseases Lameness Sore Throat and throat diseases Locomotor Ataxia Lumbago Sprains
Nervous Affections Toothache
Weak Eyes
Weak Eyes

Made Safe for Home Treatment

Wrinkles

The Renulife Violet Ray High Frequency Generator is so designed that anyone may take treatments right in his or her own home for any of the above diseases, with the aid of our charts and directions, which are written by experts.

Warts and Moles

Neuritis

It is absolutely harmless and may be used upon the most delicate invalid or child without the least fear of injury. It is impossible to obtain a shock and there can be no possible harmful results.

Most Compact and Convenient

The Renulife Generators are the most compact, efficient and lowest priced Violet Ray generators on the market. They deliver a current of exceedingly high voltage and frequency, so necessary in electrical treatments. The length and strength of spark or strength of current is controlled by a convenient knob placed on top of the generator.

Renulife generators are so designed that the operator does not have to carry the entire weight of the instrument in the hand when giving or taking treatments, as the handle is separate from the case of generator. This handle is light in weight and treatment may be given by a small child; there is absolutely no fear of a shock or disagreeable spark.

As will be seen by the illustrations the generators are very handsome in appearance. They are a most valuable addition to any home and will deliver the currents necessary for all classes of work.

Improved and Patented Features

Embodied in Renulife Generators are several improved features of construction affording added simplicity, convenience, durability and effectiveness to our instruments. The advantages of these patented features are not available with any other generators on the market.



Some Uses of Renulife Violet Ray

We do not attempt in this booklet to give full specific directions for applying the Violet Ray treatment. We briefly describe some of the many uses. The treatment chart and directions for operating accompanying each instrument takes up in detail just how to accomplish best results in treating each of the ailments enumerated.

Rheumatism

Rheumatism of whatever kind is almost sure of certain relief by treatment with the Renulife Generator. This may sound unreasonable to those who have suf-



fered the tortures of rheumatism, but it is true. We have known instances where after a single treatment of the Renulife Generator a sufferer has walked out and forgotten the cane with which he hobbled into the office. A thorough treatment has never been known not to give relief and in some cases every trace of the disease has disappeared in a very few treatments.

In a few moments the inflammation is taken out and

the pain relieved. In severe cases which have been dragging along for years a series of treatments is generally required.

Neuritis

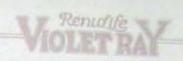
Neuritis is an inflamed condition of the nerves, the pain simulating the pain of Rheumatism or Neuralgia. Any nerve may be involved. Brachial Neuritis is a common form. One high authority has stated that no matter what nerve is involved, the High Frequency current is curative in all cases.

Lumbago



This is a disease which grips you in the small of the back. It is in reality rheumatism of the back. No matter how severe the pain the Renulife Generator will give relief in the very first treatment and normal conditions completely restored.

You apply through your clothing to get the stimulating effect that brings circulation quickly to the part causing discomfort.



Neuralgia

The old definition of neuralgia: "The cry of a starved nerve for blood" holds to the present day, and the High Frequency Violet Ray current will certainly supply this want. "Starved nerve" implies that the nutrition fed to the nerves through the blood is below normal. By using the Violet Ray current the oxygen and nutrition in the blood are increased and the nerves are nourished and restored to normal.

Sciatica

Sciatica is in reality simply neuralgia of the Sciatic nerves. The same thing can be said of sciatica as of neuralgia or neuritis. In a few treatments the irritated nerves are soothed and the pain disappears like magic.

Statements of Renulife Users

Headache and Nerves—Received a Model E Generator and I am very pleased with it. My headache left me and my nerves are much quieter.

Rheumatism Beaten—A few years ago I was a sufferer of the same ailment, Rheumatism, and I was cured with one of your outfits, so you see I have great confidence in them.

Walked Out Well—Have just relieved one of our friends of Sciatic Rheumatism; walked in a cripple, walked out as well as any one else.

Returned to Health—Your Generators are all that you claim them to be and then some. I have proven that to my neighbors by curing my wife from rheumatism. Three months ago she could not walk and had to be carried, today she does all of her housework and shopping—thanks to your Generators.

Rheumatism Conqueror—Treated another gentleman for Rheumatism today, with good results. Had been home from work for three weeks. The other case was seven weeks; with five treatments they are doing fine, have no more pain and can do their work. One we had was of four months' standing; one treatment seems to have fixed this case alright.

Good Results—Received Generator and have had good results from it for backache and rheumatism.

For Sciatica—In regard to Model E Generator which I have used for eight treatments for Sciatica, I am more than pleased with it. Received more relief in this short time than I have from anything else in the last eighteen months, doping myself with many other patent medicines and liniments.

Nervous Diseases

The Renulife Generator does to the nerves just

what the name implies. It renews the life of the nerves. By treating the spinal column with High Frequency Violet Ray current the entire sympathetic nervous system is given a cellular massage which can only be obtained by this method of treatment by elec-tricity. The most severe cases of Insomnia, Brain Fag. Neurasthenia or Nervous Breakdown yield in a remarkably short time to this wonderful little agent which is within the reach of every one; namely the Renulife Generator.





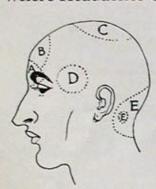
Headaches



Treatment with the Renulife Generators will in ninetynine out of one hundred cases give instant relief.

The Violet Ray stimulates the circulation, enables the blood to throw off the poisons which are at the root of the disturbance, and improves the general physical condition, so the headache is automatically relieved.

Where Headaches Occur



Headaches at A or B are congestive or frontal Eye trouble, or frontal sinus or nasal disease may cause the ache at A. Also such pain may come from disordered stomach. A-B, from constipation, C, anemia or bladder disease. D. E, from disorders of middle ear, or of throat, eyes or teeth. E, nervousness, spinal irritation or female trouble.

Paralysis

Paralysis is merely a symptom of certain forms of injury which causes the complete or partial loss of motor function of the muscle fiber. Excellent results are obtained by the application of **High Frequency** current. The more obstinate cases may require continued treatments to attain the best results.

Goitre



Excellent results have been recorded in the treatment of goitre. The High Frequency Violet Ray has a tendency to dissolve and absorb any growth tissues. Physicians report that they have had but very few cases of goitre which did not yield to the Violet Ray Treatment.

The external throat electrode is so shaped as to fit around the throat.



Constipation

Constipation has been called the mother of diseases. Certainly it is responsible for more ills than most people suspect. Nervousness, Headache, Backache, Pimples on the Face, and a host of other ailments can be traced directly to constipation.

Treatments of the abdomen with the Violet Ray Generator stimulate the bowels to do their intended work and there is no unnatural process whatever. You will notice results very quickly when you begin to apply the Renulife Generator.

Indigestion

Everyone knows the pangs of indigestion, the burning, aching, scalding pain we call heartburn.

By the application of the Violet Ray current the pain and discomfort are removed, the flow of gastric juices is promoted and the natural action of the stomach or bowel is stimulated and assisted.

Eczema and Skin Diseases

Those suffering with Eczema and Skin Diseases have long given up hope of curing themselves of their dread ailment by means of salves, ointments, etc., as they do nothing more than soothe for the time being. High Frequency Electricity is recommended by Physicians and used by Specialists as the only relief for these diseases of the skin.

Statement of Renulife User

I had a stroke of paralysis two years ago and spent thousands of dollars seeking a cure but without results. In fact I have derived more benefit from your Violet Rays in three weeks than all other treatments combined. I feel almost certain of a complete cure. My arm and hand are as good as ever and I can walk comfortably and without a cane. I am feeling fine in every way. Three weeks ago I was ready for the junk pile. I cannot express sufficient thanks to you for my wonderful improvement. Any service I might render you, kindly advise as it will be a pleasure to me.

Catarrhal Deafness

In deafness resulting from catarrh the application of High Frequency current will yield remarkable results when applied directly in the ear by means of our ear electrode. In a few treatments the ringing in the ears, which almost without exception accompanies the deafness caused by catarrh, will in most cases stop and in continued treatments the hearing will be bettered to a great extent.

The warmth from electrode is pleasant, while the high frequency current overcomes the congestion.





Prostatic Diseases

The results following the Violet Ray High Frequency treatment of all forms of prostatic diseases are extraordinary; physicians report 90 per cent cures in all cases with no cases in which very perceptible improvement was not recorded.

Warts and Moles

No longer need you have that feeling of discomfort in the presence of others by the fact that your hands or face are covered with ugly looking wartsormoles. Treatment with the Renulife Generator removes them and leaves no scar.

Anemia and Poor Circulation

The primary action of High Frequency Violet Ray Electricity as generated by the Renulife Generator is to increase the circulation of the blood; when the vacuum electrodes are applied, there is soon produced a redness or hyperemia with all the resultant benefits of nutrition.

It is this building up of the circulation which is so extremely beneficial in all cases of Anemia, Chlorisis, Arteriosclerosis, etc.

Besides the increased circulation we also have by actual count an increased number of white blood corpuscles, which are the most active agents in destroying all disease germs which threaten us with all forms of disease.

Statements of Renulife Users

M. D. Having Great Success—I am having great success in the treatment of weak eyes.

Eyes Improving—I have had the machine one week and am well pleased with it and my eyes are improving.

Weak Eyes



The first treatment of Violet Ray High Frequency Electricity will leave a pleasant, delightful, restful, sensation in the eyes. All cases of weakening of the Optic nerves, inflammation or eye strain are benefited in a remarkably short time so that the user of the Renulife Generator regards it as a thing of magic.

Again results are accomplished by a betterment of the circulation in the parts treated.



Scalp and Hair Treatment

Practically every disease of the scalp, such as Dandruff, Itching Scalp, Falling Hair, Grey Hair, etc., can be traced directly to the improper circulation of the blood flowing through the scalp.

If we were to starve ourselves we could not live; consequently when the blood carrying the Oxygen and nutrition to the scalp becomes clogged or congested, the scalp does not receive its food. It is natural that it should die. This it actually does do and results in the above mentioned diseases.

When the Violet Ray is applied to the scalp through the electrode, its primary action is to increase the circulation of the blood. Besides increased circulation it increases the supply of Oxygen or nutrition in the blood. Thus the parts which were slowly starving to death are built up, nourished and restored to normal.

Falling Hair, Dandruff and Itching Scalp are relieved after a very few treatments. Results are manifest right after the first treatment. The hair takes on a lifelike, glossy appearance. Dandruff and Falling Hair cease and there is no more unpleasant itching. It takes longer to restore the natural color to Grey Hair, but a little persistence will do it and many of the testimonials on file at our office from users in every part of the country testify as to the wonderful results obtained in treating diseases of the scalp.

The rake comb electrode No. 2, is for scalp treatment.

Statements of Renulife Users

Restoration of Hair, Etc.—Sometime ago I purchased one of your Voilet Ray Generators and have used it with excellent results for the restoration of hair and for stiff and sore rheumatic finger joints.

Improved Hair—Have taken High Frequency Treatment and find it beneficial to one's health. It also strengthened my beard and improved my hair considerably.

Treat yourself
for scalp afflictions
or to improve
the health
and quality of
your hair





Beauty

The largest and best known Beauty Parlors with branches in every large city in the United States have adopted the Violet Ray as essential equipment.

Our Renulife Violet Ray Generators designed for self treatments, virtually bring to your home all the advantages of the modern beauty



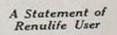
advantages of the modern beauty shop. In fact you are enabled to effect even more gratifying results than are possible through an occasional treatment at the hands of an expert because daily you may make use of this wonderful agency which works with Nature to refresh and restore.

The Violet Ray is applied through the surface electrode as a massage. When the Face Chin, Neck and Bust are treated with the Violet Ray, the blood is brought to the surface, the soft muscles are gently massaged, the lines fill out, the

wrinkles disappear, and the bloom of Health is renewed. The Violet Ray treatment is delightfully pleasant and is the most effective method ever discovered to retain a youthful appearance and to gain Beauty. It will remove blemishes, warts, moles, wrinkles, crows' feet, pouches under the eyes, blackheads and sagging lines of the face and chin. A single treatment will convince you that it is a crime against yourself to be without a Renulife Generator when all marks and lines can be so quickly removed.

Besides the treatment directly to face with surface electrode, which treatment you can readily give yourself, you will find it very beneficial to hold in hand general electrode or preferably the metal electrode, while another person massages your face with the hands. This draws the stimulating sparks to the sur-

face thus massaged.



Warts, Moles, Etc.

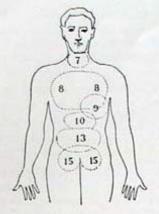
I bought two of your machines, sold one and used one. In some cases I have used it for massaging and for removing warts, moles and some birth marks and none have ever come back. The Comb

The Comb Electrode is a wonder for dandruff.





Location of Vital Organs



- 1 Base of Brain
 2 Center of Neck
 3 Middle of Shoulder
 4 Middle of Back
 11 12 12 5 At the Hips
 6 End of Spine
- 7. Neck and Throat.
- 8. Lungs.
- 9. Heart.
- 10. Stomach.
- 11. Spleen.
- 12. Kidneys.
- 13. Bowels.
- 14. Liver.
- 15. Loins.

Violet Ray applied at these vital seats is effective in restoring normal functioning.

How Violet Ray Benefits

The Violet Ray is a thorough treatment; the irresistible, revitalizing powers of the Violet Ray being carried at once to every nerve cell, fiber and part of the body, even the heart is saturated. It increases the oxygen in the blood, enriching and purifying it, and giving added vitality and strength, and so eliminates the poisonous waste products to which much disease is due. It exercises without effort or the weakening waste of energy. The Violet Ray reaches and treats the cause of the diseases whether known or not and so strikes at the very root of the disturbance.

The Renulife Violet Ray High Frequency current produces a cellular massage. Instead of the contraction of muscles, the individual cells are stimulated by the oscillation of the electric current. This causes a marked improvement in nutrition and general health. The benefits are not confined to the local area or part but is constitutional in results.

Treat through
Clothing
to produce the
Stimulating
Spark



Pains and Aches

Aches and pains are messages from some troubled organ, muscle or nerve. It is a call for relief, It may



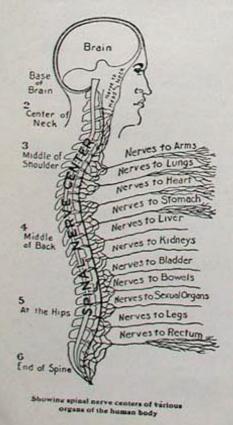
be the stomach is in distress with an overtaxing load, or the bowels congested, or the nervous system in general reacting against some abuse. The pain or ache may be localized, while the cause originated in a remote functional relation.

A pain in an arm is likely to be the local manifestation of ϵ blood stream laden with poison, which has also affected the

nerves-and the result is Rheumatism.

The Violet Ray is the most potent pain and ache eradicator, because while it breaks up local congestions stimulating circulation, at the same time it acts directly on the blood. A baptism of ozone purifies the blood relieving nerve pressure, pains and aches vanish.

Treatment at Nerve Centers



In applying the Violet Ray to the spinal nerve centers communicating with the parts under treatment, beneficial results are secured. II indigestion is present in addition to direct treatment of stomach region, there should be a thorough going over of middle back at 4. And in like manner the proper nerve center should be treated, as well as local application, for relief in any organ or part. (See Chart herewith.)

This indirect application will prove of much benefit ir treating organic disorders.



Electricity and Life

From the Electrical Experimenter, May, 1917.

The Construction of High Frequency Apparatus for Medical and Lecture Use.

By Frederick Finch Strong, M. D.

Lecturer on Electro-Therapeutics, Tufts

Medical School, Boston.

In the March number of the Electrical Experimenter the author pointed out that high frequency currents, when properly tuned, acted as "Vital Boosters," increasing all the functions of the body and helping it to resist and throw off disease. This vitalizing effect is not due to the mere liberation of heat in the tissues, for it is produced by the very high voltage ("Tesla") currents as well as by the heavy amperage ("D'Arsonval") currents from which the thermic effects are usually obtained.

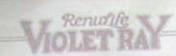
When the writer demonstrated the first therapeutic Tesla Coil and the first Vacuum Electrode—(in 1896 before a Boston Medical Society)—and suggested that the method was destined to come into general use as a vitalizing agent, he was laughed at by his colleagues; yet today there is scarcely a well-equipped physician's office in this country or in Europe that does not contain some form of therapeutic high frequency apparatus. Even the barber shops of the present time have their small "Violet Ray" outfits; and they are not by any means "fakes" for they produce real results, such as the relief of headache, neuralgia, skin diseases, et cetera.

Unlike many other forms of electricity, these currents may be administered to patients with perfect safety. In twenty years' experience in Electro-Therapeutics the author has never known of harmful results from the use of Tesla currents applied through a vacuum electrode. The writer is a firm believer in the use of the Tesla currents in the home—if each member of the family could receive ten-minute daily treatments from a small high frequency apparatus, the general standard of health would be greatly increased. This has been demonstrated in hundreds of cases.

The author has interviewed a number of more prominent authorities on medical electricity and they agree as to the vitalizing effects resulting from the daily high frequency treatments.

There is no quackery or uncertainty about the High Frequency current. It is not claimed to be a "cure-all." Its effects are systematic as well as local, and therefore it treats fundamentally. A thorough cell massage is given with a healthful, stimulating effect. It is a potent aid in restoring to normal the physical condition that may have been impaired from most any cause. The results obtained are almost universally beneficial and never harmful.





Ozone as a Therapeutic Agent

(Quoted from High Authorities)



The glass ozone generator fits handle of any of our models; furnishes ozone for inhaling. Price \$9.50,

"Ozone acts as a powerful antiseptic with diseased mucous surfaces, consequently its beneficial action is quickly apparent in the treatment of bronchial and laryngeal affections, catarrh, hay fever and all diseases of the respiratory organs. When inhaled it hastens the oxidation of the blood, increases the red blood corpuscles, and by producing a feeling of well being in the patient is of the greatest value in neurasthenia, melancholia, hysteria, psychologic impotence and other neuroses."

CHAS, S. NEISWANGER, M. D.

"Indications. In one sense of the word, since oxygen is so essential, it might easily be claimed that ozone was indicated in any bodily ailment, and I am of the opinion that its inhalation would be beneficial to the extent that pure air would be desirable, but there are some diseases in which it is of particular benefit. Among these are anemia; all diseases of the respiratory organs, including tuberculosis; infectious diseases; and all conditions where there is imperfect oxidation and impaired nutrition. An ozone spray has been demonstrated to be healing in all forms of ulcers, etc."

NOBLE M. EBERHART, M. D., Ph. D., D. C. L.

Physiological Action

Ozone increases the oxygenation of the blood and tissues, increasing oxyhemoglobin and also increasing the number of red blood corpuscles. It is claimed



that a decrease in white blood corpuscles is produced if they are above normal. Germs are destroyed by it and it has been shown capable of so thoroughly disinfecting sewage that the filtered water was pronounced suitable for drinking purposes. It is distinctly deodorant.

Dr. J. T. Gibson says in Advanced Therapeutics: "In advanced cases with cavities and much expectoration, I think there is no means of so much use as inhalation of ozone. It empties the lungs of detritus and pus, revivifying the blood, disinfecting



Physiological Action—Continued

the parts of the lungs reached, and after the first irritation of its use has passed off, there is nothing that gives the lungs the sense of rest and quiet as does this agent. I have seen the quantity of sputum lessened to a most remarkable degree, and fever disappear, and all symptoms improve by the use of ozone inhalations."

Anemia and Chlorosis

In a paper read before the American Pediatric Society, Boston, Dr. A. Caille reports the favorable influence of ozone in a number of cases of chlorosis and anemia as well as other diseases, and in his conclusion, says: "In chlorosis and anemia, ozone inhalations are exceedingly valuable from a therapeutical standpoint, and give better and prompter results than any other form of medication."

Ozone From the Renulife Generator

Ozone is simply a concentrated form of Oxygen. Without Oxygen we cannot live. When we breathe we fill the lungs full of pure air or oxygen. This oxygen passes through the walls of the lungs, at the same time passing through and purifying the blood, which is flowing through the walls of the lungs and which comes there from every part of the body to be purified.

It is the lack of pure air to purify our blood that causes us to be overcome with disease. Being cooped up in an office or factory all day long is responsible for most of our diseases and particularly diseases of the respiratory organs.

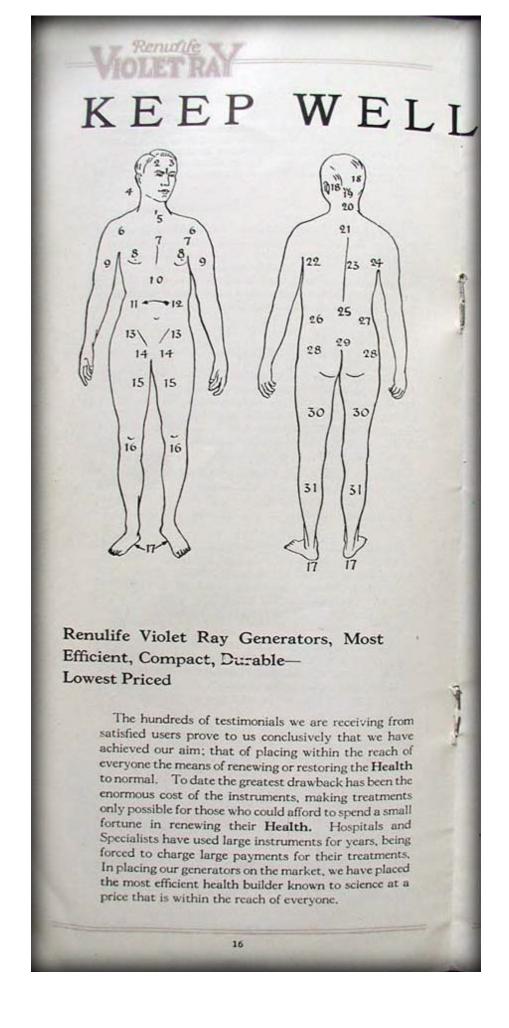
The Renulife Ozone Generators deliver Ozone in large quantities for inhalation purposes. The Ozone penetrates every cell in the lungs, purifying the blood, destroying disease germs and soothing the inflamed tissues. For Asthma, Catarrh, Hay Fever, Coughs, Colds, Bronchitis, Tuberculosis, etc., there is no better treatment known.

Our Ozone inhaler attachment No. 25 is designed so as to fit the handle of any of our Generators. The High Frequency current conducted through this attachment creates ozone in quantities, confines it and filters it through an oil so that one may inhale it with maximum bene-

fits.

In our Type Cinstrument an Ozone Generator of very efficient design has been built right in the case. This is equipped with a mask fitting over the mouth and nostrils for inhalation purposes.







AT HOME

In this booklet we touch briefly on some of the uses of Renulife Generators. Directions for applying in treatment for various ailments listed are given in detail in the treatment chart, and directions for use, accompanying each generator.

Abbreviated Treatment Chart, Using Electrode No. 1

Rheumatism: Treat area of pain through thin layer of clothing, also apply to 11-12, 26-27.

Headache: Apply to 2, 3, 1, 20, 21, 23, 11-12.

Insomnia: Apply to 11-12, 26-27, down spine from nap of neck to 25, also apply to bottom of feet 17.

Neuralgia of the Face: Apply to cheeks, front of ear, and cords of neck.

Indigestion: Treat 12-11, 10, 20, 23-25.

Constipation: Treat 13-13, 14-14, 12-11.

Nervousness: Treat area at 19, also up and down spine from 19 to 29. Treat 18-18, also treat abdominal region 13, 14, 12, 11, also upper arms and shoulders 6-9, also lower limbs, 31, 17.

Deafness: Treat all around back and front of ear, also internal ear with electrode No. 21.

Dandruff, Falling Hair, Gray Hair, and Scalp Ailments: Electrode No. 1 may be used, but rake comb electrode No. 2 preferred. Cover entire scalp at least once a day, eight-minute treatments.

Complexion: In addition to applying to face and neck, treat for improved indigestion in area 12-11.

To Strengthen Lungs and Develop Chest: Thoroughly cover area 5-8, 5-7, also area 21-22, 21-24, holding up chest and breathing deeply during treatment; ozone inhalation from ozone generator is very desirable,



The Statements of Renulife Users published in this book are taken from letters written to us. They are the unsolicited expressions of people made without intent of giving public testimony. Original letters in our file.

I think it is one of the best little machines that was ever in-

Like Charm

A neighbor lady was suffering from lumbago and could not move, and my wife brought over the Generator and in less than ten minutes the lady was greatly relieved. The Generator worked like a charm. The news spread about.

Appreciate It

At my birth I was taken with instruments, and a nerve in my face was injured so that when I laughed my mouth was crooked. Since I used your machine, my mouth no longer looks that way when I laugh. It has helped the nerve in some way, and I am pleased about it.

My friend, too, finds she sleeps now, whereas before she never slept more than three hours all night. She is much pleased with her machine.

Beats All

Your Generator is just the thing for me. That tired feeling has left me and I feel like myself again. You sold one to my son, Emet, and I'm surprised what it is doing for me. Beats all dope I took and I can tell you I took some in my lifetime.

As Represented

I received my Violet Ray Generator over two weeks ago, and found it in perfect condition, and am satisfied with it. I must also state that Model E is as good as it has been represented by your catalog.

Instant Relief

Obtained almost instant relief for my hay fever.

Nervousness

I received your Model "E" Generator in good condition, and am very much pleased with it. It has relieved me of the nervousness and also it has helped me a great deal in using it for the treatment of rheumatism. I am very much pleased with your Violet Ray Generator, and although having used it but a short time, feel sure it has already done some good.

For Eyes

I have had the machine one week and am well pleased with it. and my eyes are improving.

Cures Neuritis; Relieved Throat

I wish to advise you that after using one of your Renulife Violet Ray Generators for a short time that I am completely cured of Neuritis. It has also assisted wonderfully in relieving my throat before singing

Catarrhal Deafness and Ringing in the Ears

I had a catarrhal condition in one ear that caused a roaring or ringing sound and have had four or five treatments with the ear tube, with very great benefit.



For Singers

After taking one treatment from your generator on my throat found immediate relief and was able to work,

Nervous Breakdown

I am taking this means to inform you what a wonderful instrument you are offering the public. The following is an experience. I had with a case of nervous breakdown and fainting. In less than one minute this lady was remarking how good she was feeling and in twenty minutes looked as if nothing had happened, in fact, said she felt better than she had for some time. I believe it would be a favor to inform the public of this experience and should convince any skeptical persons as to the merits of this machine.

Varicose Veins

I have had some experience with a Violet Ray machine as treatment for Varicose Veins and worked wonderfully.

Dandruff, Falling Hair

After using your Violet Ray for a short time I wish to tell you that it has completely cured me of falling hair and dandruff. My wife, who has suffered with headaches for years, has also been cured.

All We Say of It

I received O. K. the Model E generator. I am using it and find it all you say of it.

General Breakdown

I was feeling sick all the time and I bought one of your generators. I used it about one week and I was cured.

Pyorrhea

Noting the cure of "Pyorrhea" with your home treatment "Violet Rays" led me to give your treatment a trial. I am frank to state that the applications made thus far show a rapid improvement. I was annoyed by the formation of pus sacs on my gums presumably from decayed teeth. The treatment is mild and pleasant and common sense would as in my case warrant the application which has made the expenditure profitable in that particular cure. I am sure of profiable results in other directions.

Rush It

I used this machine on a musician one time and he says "order me one and order it quick," so you see my rush.

Feeling Better

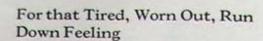
Will say we seem to be feeling much better after using it.

Goitre Treated

One lady here had a double goitre for which she has been treated successfully.

Physician's Advice

Every house should have a Renulife Violet Ray High Frequency Generator for the treatment of the simpler aliments such as: Neuralgia. Neuritis. Sore Throat, Kernels in Neck. Cramps. Headache, Stiff Neck. Muscular Soreness, Rheumatism, Paralysis—in short, pain of all kinds. Growing pains in children, occupation palms, and fatigue. A good thing to apply till the Doctor comes, then ask for further instructions. First remove celluloid hair pins and ornaments containing it, also metals are best removed, then apply the Violet Ray High Frequency current, and expect results if it is a Renulife Generator



Renualite "

These strenuous days make heavy drafts on our store of nervous energy. When in full vigor, we withstand these debility effects and come back daily with strength renewed by nature.

Some constitutions will stand twice the abuse that others will, but excess persisted in will break down the most perfect human structures. You notice a lessening of your animal spirit; you realize that there is a limit to your capacity for endurance; your appetite is not so healthy; your back aches; you have dizzy spells when you stoop; you have pains in your chest and shoulders; spots float before your eyes; your food does not digest; your bowels are irregular; you do not get rest from your sleep, but awaken tired; you are dull and without your old ambition; your vital force is low—in fact you are breaking down. Youth is giving away to the ravage of wrong living.

Fortunately taken in time nature will repair the damage, if you give her the right aid.

Get your blood circulating properly again. Tone and restore the quality of the blood, tissues and nerves. With a Renulife Violet Ray you can stimulate and revitalize your entire system, re-establish circulation, set all the vital functions in healthy, robust action.

To those who have wasted the vivacious energy of youth by excessive high living and those who find the spark of vitality growing fainter, and to all those who feel that their vital forces are slow of action and who lack the fire and ambition of youth, the Renulife Violet Ray is the greatest boon available—offers just the way to health and strength.

Statements of Renulife Users

Certainly Pleased—Received your Generator Model "B." I am certainly pleased with it. It does wonders. It is very handy to carry around.

Good As a Very Expensive One—Wish to say that the Model "E" is a very good little machine. I find the machine is as good through clothing as a very expensive machine from which I have been taking treatments.

Better than Expected—Your Model "B" arrived, as did extra Electrodes, and have proven themselves far beyond my anticipation.

Much Benefit-I am receiving much benefit from it.

Soothing Pain Reliever-I find it a soothing pain reliever.

Better Than for Years—I have used generator for three weeks and can say I am feeling better than have been for years.

Useful and Health Giving—Sometime ago I bought one of your Renulife Violet Ray Generators, and I find it a very useful and health-giving machine.

A Little Wonder—I would not part with it for five times the price, if I could not get another one like it. It is sure a little wonder.

Proud of It—Last week I received the little generator and I am very proud and satisfied with it. I feel better since I used it. It is a wonderful little instrument. I thank you very heartily.

Restored Health—Am glad to say that the little machine which I am using has truly restored my health into good condition. I highly recommend it.



This Famous Little Instrument has Won Tremendous Popularity



Model E

o meet the demands of a generator that would be within the reach of everyone and at the same time efficient, our Model E was perfected. This model is the lowest priced, most efficient Violet Ray Generator in the world. It attaches to any electric light socket and may be operated by a child without fear of shock or spark. Its coils, etc., are designed so that it delivers a current of exceedingly high voltage and frequency, and it will meet the demands of everyone.

We particularly recommend it for the home. We have installed it in Doctors' Offices, Barber Shops, Beauty Parlors, in fact, everywhere where it is subject to the most strenuous work and it has stood the test in every case.

We give the same unlimited guarantee with our Model E as with our higher priced models.

Price, complete as shown, with connector cords and one No. 1 electrode\$24.00

All electrodes are made to fit the handle of any of our generators and are interchangeable.

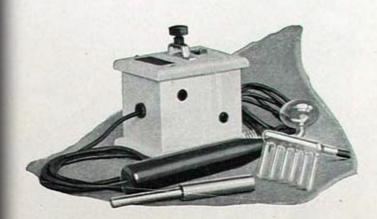
Any model may within one year be exchanged for a higher priced model at the full purchase price paid.

As Represented—Generator purchased from you three months ago is just what it is represented.

Perfect Satisfaction—The machine has given perfect satisfaction and I would not take three times the price I paid for it.

Designed Especially for Beauty Parlor Use

Attractive White Ivory Finished Cabinet



Beauty Parlor Model G

This instrument has been especially designed for Beauty Parlor and Barber Shop use. It is made to withstand continued usage and is equipped with coils, etc., to deliver the current best adapted for hair, scalp, massage and facial treatments.

The case is beautifully finished in white enamel with all metal parts nickeled. An extra length of connector cord facilitates the movements of the operator in giving treatments. Size 6" x 4¾" x 4¼".

This handsome outfit complete with General Surface Electrode No. 1, Rake Comb Scalp Electrode No. 2 and Metal Saturator Electrode No. 3 for indirect massage......\$30.00

Our Standard Generators are designed to operate on 100 to 120 volt, alternating or direct current. Generators to operate on 32 volt lighting system or any voltage other than standard furnished at additional charge of \$2.50.

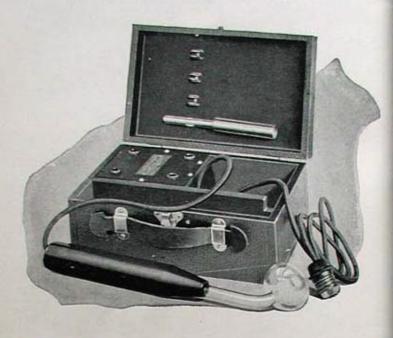
Wonderful Results—I am getting wonderful results from your Generator, and it is worth many times the price I gave for it.

Great Relief—I have had great relief from a pain and soreness that has troubled me for over twenty years—so am ready to sing the praises of the High Frequency Violet Ray. I have written two friends advising them to try it.

Very Satisfactory—Having used one of your Violet Ray Machines this past winter at Miami, Fla. I find them very satisfactory. Will ask you to send me some Price Lists, as I did not think to bring one with me.



A Small Portable Outfit Built in a Carrying Case



Model F

This instrument is slightly stronger than the Model E and is built in a self-contained carrying case, seal-grain keratol covered, velvet lined, with electrode clips in lid for carrying four electrodes. There are no exposed metal parts on instrument.

It is a most convenient outfit for carrying about; handsome and efficient, size of case when closed 10" x 4½" x 7". Regularly equipped with No. 1 General Surface Electrode and No. 3 Metal Saturator Electrode.

Price, complete as shown\$30.00

Our Standard Generators are designed to operate on 100 to 120 volt, alternating or direct current. Generators to operate on 32 volt lighting system or any voltage other than standard furnished at additional charge of \$2.50.

Most Relief—It is giving me very satisfactory results, and most relief from pain of anything I have ever tried.

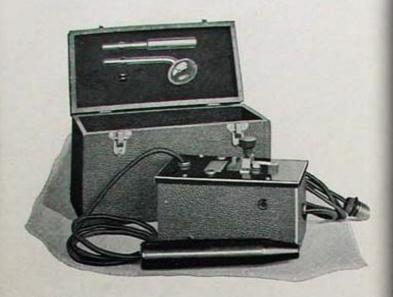
Physician's Statement—I have been using one of your Violet Ray Generators and have had wonderful results, and through the results one of my patients has asked me to send for one of your Generators that she might have one at her disposal all the time. She asked me to send for your model "E."

Pleased with Results—May say that my Generator arrived in good condition and am highly pleased with the results obtained from its use.

Works Fine—I received the model "B" Generator O. K. It is a fine instrument, and works fine.



A Larger Portable with Carrying Case Separate



Model A

This instrument delivers a current of exceptional high frequency and voltage, has increased condenser capacity. It is not made in self-contained case but separate carrying case is included as shown.

Size of instrument, 8" x 5" x 41/4".

Size of case, 12" x 7" x 6".

The sides of the instrument are covered with black seal grain keratol and top plate is of rich mahogany finish, all metal parts highly nickeled.

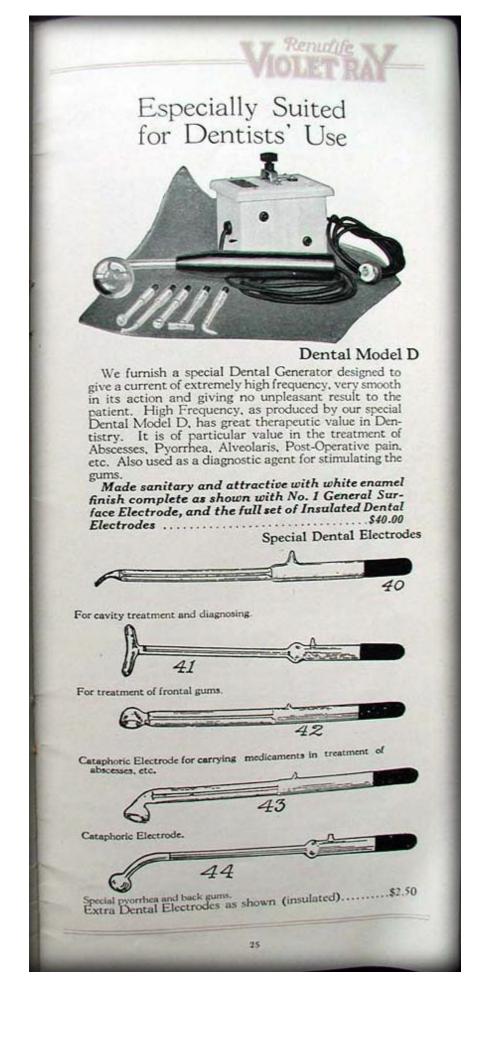
Carrying case is fitted with leather handle; case entirely covered with black seal grain keratol and lined with purple velvet. Ample space is provided for cord and handle and lid is fitted with three electrode holders.

Our Standard Generators are designed to operate on 100 to 120 volt, alternating or direct current. Generators to operate on 32 volt lighting system or any voltage other than standard, furnished at additional charge of \$2.50.

Helps Nerves—I am pleased with the generator, and find it a great benefit to my nerves, and health in general.

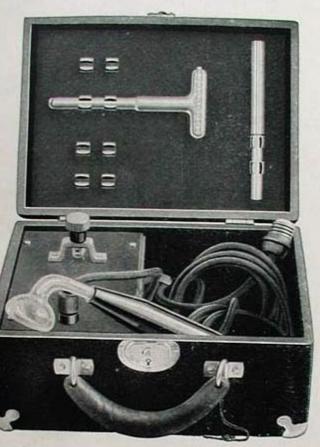
Find It a Wonder—I have tried the machine and I find it to be a wonder. I have shown it to several of the friends and neighbors and they all seem to like it.

It has been worth the money already.





Built in Self-Contained Carrying Case



Model B

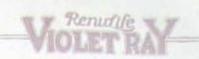
This Generator electrically is similar to our Model A, but is built in self-contained carrying case of substantial, handsome construction. Case is covered with black seal grain keratol, and is fitted with heavy nickeled corners and lock: lined with rich purple velvet. The top is of beautifully polished mahogany finish. In the lid are holders for five Electrodes.

Size of case 12" x 9" x 61/2".

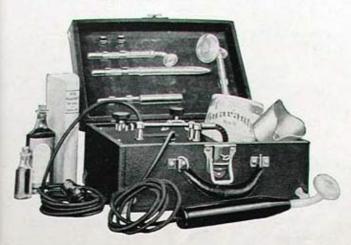
This outfit is of the highest quality throughout and represents maximum value in a portable High Frequency Generator. Used extensively by professional people as well as in the home.

Price complete, as shown, including No. 1 General Surface Electrode, No. 2 Rake Comb Scalp Electrode and No. 3 Metal Saturator Electrode \$45.00

Our standard Generators are designed to operate on 100 to 120 volt, alternating or direct current. Generators to operate on 32 volt lighting system or any voltage other than standard furnished at additional charge of \$2.50.



A Most Complete Portable Violet Ray for Both Professional and Home Use Ozone Inhaler Built in



Model C

This model is sometimes called our Model DeLuxe. It is the utmost in Violet Ray outfits. It delivers two qualities of High Frequency Electricity and includes a self-contained Ozone Generator of high efficiency. By means of a three-way switch conveniently placed on the highly polished mahogany finish plate a current may be selected for internal treatments which is of exceptional smoothness and produces exactly the correct amount of heat; or a current for external treatments may be selected with no further adjustment of the controlling knob, or the current may be completely turned off the Violet Ray, and the Ozone Generator put into operation for inhalation purposes. This instrument is ideal for physicians or for anyone desiring the maximum in home treatments. Both qualities of High Frequency Violet Ray are adjustable from very mild to strong, the range in both being very wide. The Ozone is generated in immense quantities and is filtered by passing through pine needle oil before being inhaled. All metal parts are highly nickeled.

Size of case 14" x 9" x 61/4".—lined with heavy purple velvet and covered with black seal grain keratol. It is fitted with heavy carrying handle, heavy lock and

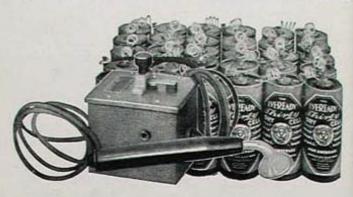
nickel plated corners.

Price complete as shown with No. 1 General Surface Electrode, No 3 Metal Saturator Electrode, No. 16 Eye Electrode, No. 7 Insulated Rectal Electrode, No. 18 Condensor Electrode, one bottle of Renulife High Frequency Liniment, one bottle of Pine Needle Oil for Ozone Generator and one copy of Dr. Eberhart's High Frequency Manual, \$75.00

Our standard Generators are designed to operate on 100 to 120 volt, alternating or direct current. Generators to operate on 32 volt lighting system or any voltage other than standard furnished at additional charge of \$2.50.



For Homes Not Wired With Electric Current—Any model except "C" furnished to operate on Dry Cell Batteries



Battery Generators

We furnish any of our standard instruments with the exception of our Model C to operate on thirty ordinary dry cell batteries. The dry cells may be purchased from any local dealer or garage by the user of the instrument for a very small outlay and are sufficient to operate any of these instruments for practically a year with ordinary use. After this time they would have to be replaced with new dry cells. We furnish the instrument ready to attach to the dry cells and also furnish a blue print with each, showing how to connect the cells and generator to obtain the best results. Instruments which are claimed to operate on six or eight dry cells have not proven satisfactory and must be continuously replaced with new cells, so that we have found this method not only more satisfactory to the buyer but much cheaper to operate, and it also does away with all annoyance of changing cells monthly or having them recharged.

The current delivered by our battery models has the same quality and efficiency as our regular models illustrated.

Price for generators, ready to attach to dry cell, \$2.50 above price of regular models.

We do not furnish the
Dry Cell Batteries. These must be
provided by the purchaser



Increase Your Efficiency through a Course of Violet Ray Physical Culture

The stimulating and eliminative effects of the Violet Ray are of inestimable benefit to the modern business or professional man who is cooped up in an office or store all day, and who has not the time for gymnastics or systematic physical culture activities. Sitting in a chair for hours at a time, his circulation becomes sluggish, the poisons are not eliminated properly from his body and his nerve force is expended more rapidly than it is generated. A run-down, tired-out condition results, which lowers his general working efficiency and which takes the edge off his normal mental alertness.

Results Like Exercise

The accepted remedy for this condition is exercise. fresh air, and bodily movement strenuous enough to start perspiration. The physical culturists tell him, and they are right, that he should set apart a daily period to keep himself in condition, to get the blood flowing through his veins, to stir the eliminative and other organs to action, and to get the vitalizing effects of physical exercise. The "Tired Business Man" is convinced, and may for a time walk to the office, or start the day with a short period of setting-up exercises, but he soon forgets his good resolutions and descends back to his former state.

Additional Benefits

The daily application of high-frequency electricity will accomplish all the beneficent results expected of exercise with the exception of biceps-building. The blood is sent coursing through the veins; the poisons in the blood are eliminated, as chemical tests show; the nerves are charged with energy; the organs are made to function normally. The use of Violet Ray will assure abounding vitality, a feeling of well-being, and the reserve strength of ample nerve-force even more effectively than exercise. In addition to the wellunderstood effects enumerated above there is a further systemic effect for which we have as yet no adequate theory. We refer to the effect of electricity on lifecells and all protoplasmic matter. Plants germinate much more rapidly and grow far more luxuriantly when charged with high-frequency electricity, as tests at

government experiment stations show. A Detroit corporation has placed upon the market a high-frequency generator working on the same funda-mental principles as the RENULIFE Violet Ray Generator. It has been used successfully on farms and in green-houses. The mysterious connection between electricity and life-force which has been demonstrated in plant culture, is also clearly evident when human beings are brought within the influence of highfrequency currents.

Builds Health, Not Brawn

The Violet Ray gives all the benefits of strenuous exercise except actual brawn, and it does this without requiring much time. It is a boon for the busy man who has little taste for cut-and-dried gymnastics. Used after the morning's bath it will give you much more "Pep" than a vigorous rub-down or massage. It will enable you to plunge into the day's tasks with surplus energy. It is a good business investment because it increases the value of your most precious working equipment, namely your physical constitution and nervous apparatus.





DESCRIPTION OF ELECTRODE USES AND PRICE LIST

No. 1 Surface or General Body Electrode, suited for all exterior surface treatments\$1.00
No. 2 Rake Comb Electrode, especially for
scalp treatment, Falling Hair, Dandruff, Gray
Hair 2.25 No. 3 Metal Electrode—Held tightly in hand
for exeternic treatment—Nervousness An-
emia, etc.—also held by person while being
given a hand massage of face or scalp by an-
other person
No. 4 External Throat Electrode, specially
designed to fit closely over neck, for Goitre, Tonsils, Double Chin, etc
No. 5 Internal Throat Insulated Electrode,
particularly for professional use 2.00
No. 6 Internal Throat Plain Electrode, par-
ticularly for professional use
for treatment of prostatic trouble 2.00
No. 8 Rectal Plain Electrode, also for rectal
and prostatic treatment, professional use 1.25
No. 9 Vaginal Insulated Electrode 2.00
No. 10 Vaginal Plain Electrode
No. 10 Vaginal Plain Electrode
No. 11 Urethral Insulated Electrode, par-
ticularly for professional use 2.00
No. 12 Urethral Plain Electrode, for pro-
No. 14 Fulguration Electrode, for cauterizing
and temoving dictinotics, searc, married
No. 15 Spinal Electrode, best for spinal treat-
No. 16 Single Eye Electrode, made to fit over eye, with lids closed
No. 17 Double Eve Electrode, for treating
No. 18 Condenser Electrode, made with metal
conductor within vacuum to concentrate cur-
rent producing strong, even flow, Dest 101
deen seated cases in DIRCE OF INC. I
No 10 Cataphoric Flectrode, for professional
1150
No 21 For and Nacal Insulated Electrode,
tor internal ear treatment for dealites, die
No. 22 Ear Special Insulated Electrode, best 2.25
suited for internal ear treatments
No. 23 Ear and Nasai Plain Electrode, ternal treatment of nose and ear, for profes-
ternal treatment of nose and ear, for protes 1.25
No. 24 Special Vaginal Electrode, made with
No. 24 Special Vaginal Electroders perforations, generating purifying zone internperforations, generating purifying zone internperforation. 2.75
perforations, generating purifying zone later. 2.75 ally. Particularly for inflammation
No. 25 Ozone Generator, described on a pre-
No. 25 Ozone Generator, described on a pre- ceding page. 9.50 No. 26 Renulife Tonic Saturator Electrode No. 26 Renulife Tonic Saturator Flectrode No. 26 Renulife Tonic Saturator Flectrode
No. 26 Renulife Tonic Saturator Electrode
(pat, applied for), specially Impossible to
tion treatment for torne the sentect with
receive shock no marter if a 2.50
and ad abject
prounded object
No. 27 Special Proteste 2.50 No. 27 Special Proteste 2 for any specified period.



A Working Manual of High Frequency Currents

By Noble M. Eberhart, M. D., Ph. D., D. C. L., Professor and Head of Department of Physiologic Therapeutics, Med. Dept. Loyola University, Chicago: Professor of High Frequency Illinois School of Electro-Therapeutics.

Just what the name implies, a working handbook, telling how to use these currents. No lengthy discussions, no perplexing technicalities (no red tape), 324 pages, over 60 pages of illustrations. Handsomely bound. Price \$3.00; postage 10 cents.

High Frequency Liniment

This preparation is manufactured by the Renulife Electric Co., especially for use in connection with electric treatment. For rheumatism, neuralgia, neuritis and kindred ailments, it proves invaluable.

Pine Needle Oil for Ozone Generator

Per Bottle.....\$0.50

Insulated Electrodes

The insulation of electrodes prevents leakage of current at side walls and delivers full benefit at point of contact with parts to be treated. In using internal electrodes always insert before turning on current at the knob, and turn off current before withdrawing electrode.

Dr. Snow's Set of Vacuum Electrodes

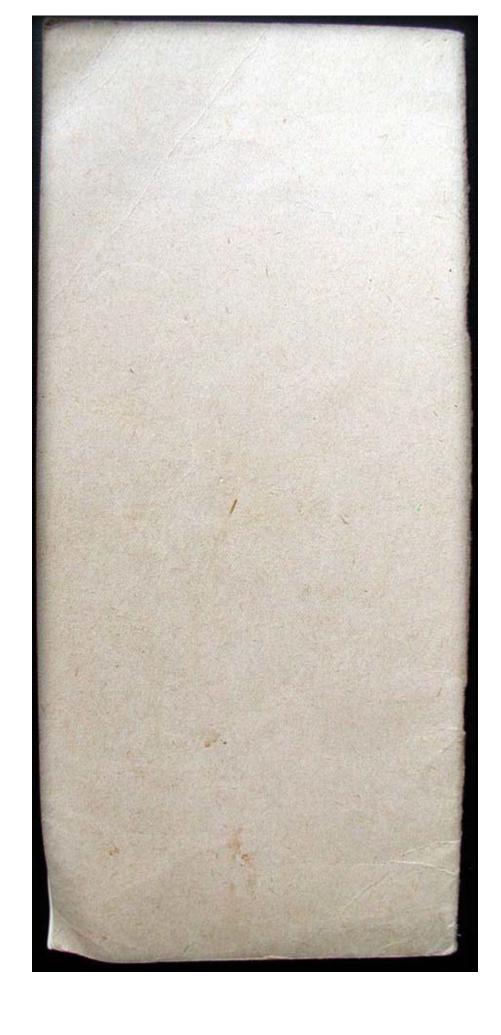
These electrodes are designed for general use. The set contains the following electrodes: Body, Vaginal, Rectal, Throat, Urethral, and Nasal.

Packed in cardboard case. \$6.00 Each Electrode singly. 1.25

Renulife Electric Company

Sixth Floor Marquette Building Detroit, Mich.

1304 Harper Str., Detroit, Nich.



Electrode Applicators

For Use in Connection With

Renulife

Violet Ray Generators

33

Manufactured by

Renulife Electric Co.

Harper at Rivard
DETROIT 11, MICHIGAN

Originators and Manufacturers of Renulife Violet Ray Generators

Please include in your ramittance postage and sales tex (if applicable) when ordering electrodes.

SEND EXPRESS OR P. O. MONEY ORDER CURRENCY SENT AT YOUR RISK.

Rec. April 19th 48

GENERAL INSTRUCTIONS FOR THE USE AND CARE OF RENULIFE ELECTRODES

In treating the surface of the body, always keep the electrode moving slowly. Never insert or remove an electrode from an orifice of the body when the current is turned on. Electrodes that are to be used internally should be lubricated with cold cream or vaseline before being inserted. High Frequency electricity is a germicide, yet sanitary rules must be followed in the care of electrodes. To sterilize them, immerse in a weak solution of carbolic acid or in Lysol. Then wipe thoroughly with a clean cloth or absorbent cotton. IMPORTANT—To get the maximum strength from an electrode, always hold the end of the handle nearest cord.

Always insert electrodes into the handle with a straight push. Don't TWIST. Remove with a straight pull. DON'T TWIST. Never use the generator when in a bath tub or when grounded by means of a radiator, electric fixtures, water pipes, etc.

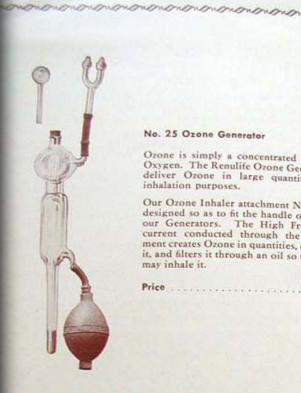
Never use the generator on the scalp when the hair has been treated with a tonic containing more than 10% alcohol.

Should the electrode at any time not give off a spark when the generator is operating, the fault is with the electrode. Air has gotten into it and destroyed the vacuum. It has very likely in some way been cracked, although the crack may not be visible. In any event, if the generator or electrodes are not working properly, we would suggest that you write us immediately, telling us just exactly what the conditions are. This may avoid the necessity of returning generator to us.

Talcum Powder should be dusted over the surface of the body being treated to allow free movement of glass electrodes.



カローローローローローローローローローローローローローローローローローローロー	~
No. 1 Surface or General Body Electrode Suited for all exterior surface treatments\$1.	25
No. 2 Roke Comb Electrode Especially for scalp treatment, Falling Hair, Dandruff	50
No. 3 Metal Electrode Held tightly in hand for systemic treatment 1.	
No. 4 External Throat Electrode Specially designed to fit closely over neck, for Goitre, Tonsilitis	75
No. 5 Internal Throat Insulated Electrode Particularly for professional use	50
No. 6 Internal Throat Plain Electrode Particularly for professional use	25
No. 7 Rectal Insulated, Electrode Designed for treatment of prostratic trouble 3.	.50
No. 8 Rectal Plain Electrode Also for rectal and prostatic treatment, profess- fessional use	75
No. 9 Vaginal Insulated Electrode	
No. 10 Vaginal Plain Electrode	
No. 11 Discontinued	
No. 12 Urethral Plain Electrode For professional use only	.00
No. 14 Fulguation Electrode For cauterizing and removing blemishes, scars, warts, etc	75
No. 15 Spinal Electrode Best for spinal treatments	.00
No. 16 Single Eye Electrode Made to fit over eye, with lid closed	.50
No. 17 Double Eye Electrode For treating both eyes at the same time 2.	75
No. 18 Condenser Electrode Made with metal conductor within vacuum to concentrate current, producing strong, even flow. Best for deep seated cases in place of No. 1 4.	50
No. 19 Cataphoric Electrode For professional use	
No. 21 Ear and Nasal Insulated Electrode For internal ear treatment for deafness; also for	
No. 22 Ear Special Insulated Electrode Best suited for internal ear treatments 3.:	
No. 23 For and Nosal Plain Electrode For internal treatment of nose and ear, for profes-	
No. 24 Special Vaninal Flectrode	25
Made with perforations, generating puritying ozone internally. Particularly for inflammation. 3.5	0
No. 25 Ozone Generator See next page for description	0
No. 26 Renulife Tonic Saturator Electrode Specially designed for saturation treatment 2.5	0
No. 27 Special Prostrate Electrode	J
Printed in U.S.A.	



No. 25 Ozone Generator

Ozone is simply a concentrated form of Oxygen. The Renulife Ozone Generators deliver Ozone in large quantities for inhalation purposes.

Our Ozone Inhaler attachment No. 25 is designed so as to fit the handle of any of our Generators. The High Frequency current conducted through the attachment creates Ozone in quantities, confines it, and filters it through an oil so that one may inhale it.

Price\$12.50

INSTRUCTIONS FOR OPERATING OUR OZONE GENERATOR No. 25

Ozone Generators are packed with nose piece attached: included separately is a small glass piece with flat disc end for inhalations through mouth. The nose piece may be removed from rubber coupling and mouthpiece inserted. Place rubber bulb on glass tip at lower part of barrel of generator. Place one tea-spoonful of Pine Needle Oil in upper chamber by removing cork. This oil will last for a considerable length of time.

Insert stem of Ozone Generator in handle of Violet Ray Generator, same as any other electrode. Hold barrel chamber of Ozone Generator firmly in left hand. This causes sparks to jump from inner vacuum to outer wall, creating the Ozone. Turn on current and agitate bulb with right hand. This forces the Ozone into the upper chamber, where it is filtered through the oil.

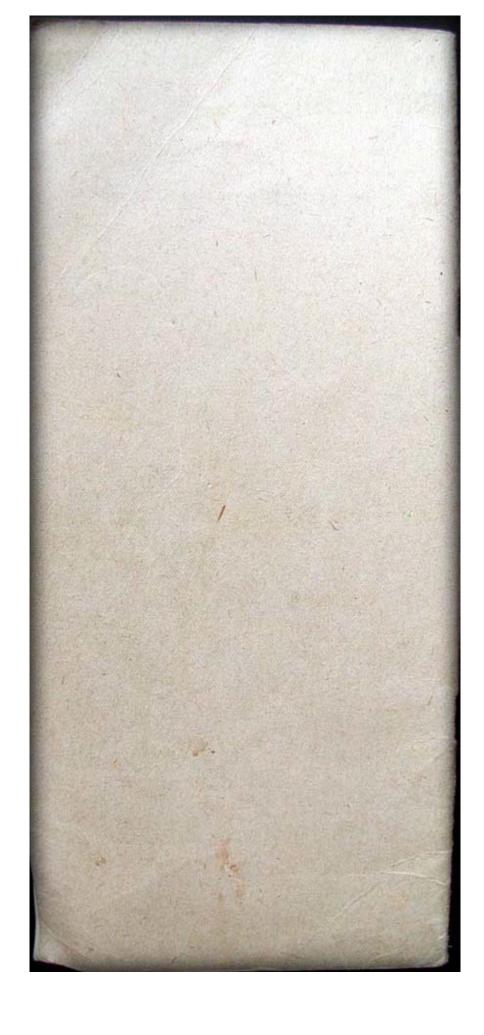
ELECTRODES FOR INTERNAL TREATMENTS

For internal treatment, electrodes are furnished to fit any orifice of the body. We furnish them in plain or the insulated type. The insulated electrode has a small vacuum tube running through the center of the electrode, and all current is brought to the tip of the electrode directly where the current is desired. Plain electrodes deliver the current evenly over all parts of the electrode touched by the body during treatment. We recommend that all internal electrodes should be insulated. Best results will be obtained from them. See Nos. 5, 6, 7, 8, 9, 10, 12, 21, 22, 23, 24 and 27.

High Frequency Liniment

This preparation is manufactured by the Renulife Electric Co. especially for use in treatment of RHEUMATISM, NEURALGIA, NEURITIS, LUMBAGO, etc. We particularly recommend this treatment for use in connection with the Renulife Violet Ray. A small quantity of it rubbed on the body, followed by a Violet Ray with beneficial treatment, will be driven directly into the tissues, with beneficial

Price, per Bottle\$1.00



Treatment Chart

and

Instructions for Operating

RE-JUVIN VIOLET RAY



High Frequency Generators

PRICE \$1.00

RE-JUVIN ELECTRIC CO.

MANUFACTURERS

LOS ANGELES, CALIFORNIA

U. S. A.

INSTRUCTIONS FOR OPERATING

Connect plug of Generator in a lighting socket. Either direct or alternating current is satisfactory. Turn on switch at light. Then insert Electrode in hard rubber handle of Generator. Turn adjustment knob on top plate of Generator to the right, or clockwise, until vibrating spring starts to operate. The farther the knob is turned in, the greater the strength of the current. Should the current not come through the Electrode immediately, hold the Electrode in the hand for a short time to warm it up. Turning the adjustment knob to the left shuts off the Generator. This adjustment knob is not a switch; it does not shut off the current, but is simply to regulate the amount of current delivered by the Generator.

As soon as through using, turn off current at lamp socket. If the Generator stops when current is not turned off, be sure and turn off the current at electric light socket before commencing to adjust the controlling knob; otherwise, an arc may be formed at the contact points and serious damage may incur to the Generator.

IMPORTANT-TO GET MAXIMUM STRENGTH FROM ELECTRODE, ALWAYS HOLD END OF HANDLE NEAR-GET MAXIMUM EST CORD.

Always insert Electrode with a straight push. Don't twist. Remove with a straight pull. Don't twist.

NEVER USE THIS GENERATOR WHEN IN A BATH TUB OR WHEN GROUNDED BY MEANS OF A RADIATOR, ELEC-TRIC FIXTURES, WATER PIPES, GAS STOVE, RADIO OR ANYTHING THAT IS CONNECTED WITH THE GROUND.

Never use the Generator on the scalp when hair has been treated with a tonic containing more than 40% alcohol.

Do not oil this Generator under any circumstances. It does

not require oil.

Should Generator get out of order, send it to us for repairs. We will not be responsible for instruments that have been tampered with either by the purchaser or some electrical repair

Should the Electrode at any time not give off a spark when Generator is operating, the fault is with the Electrode. Air has gotten into it and destroyed the vacuum. It has very likely in some way been cracked, although the crack may not be visible.

Talcum powder should be dusted over the surface of body being treated, to allow free movement of glass electrodes.

INSTRUCTIONS FOR OPERATING OUR OZONE GENERATOR NO. 25

Ozone Generators are packed with nose piece attached; included separately is a small glass piece with flat disc end for inhalations through mouth. This nose piece may be removed from rubber coupling and mouthpiece inserted. Place rubber bulb on glass tip at lower part of barrel of Generator. Place one teaspoonful of Pineneedle oil in upper chamber by detaching nose piece and using funnel. This oil will last for a considerable length of time.

Insert stem of ozone generator in handle of Violet Ray generator, same as any other electrode. Hold barrel chamber of ozone generator firmly in left hand. This causes sparks to jump from inner vacuum to outer wall, creating the ozone. Turn on current and agitate bulb with right hand. This forces the ozone into the upper chamber, where it is filtered through the oil. A pleasing, purifying, powerful agency results.

INSTRUCTIONS FOR USING METAL SATURATOR ELECTRODE

Turn on current by means of adjusting knob.

Grasp metal electrode firmly in the hand and insert in handle of generator. Pull out electrode before turning off current. Do not use this electrode when in contact with metal or when grounded by means of water or electric fixtures. Do not attempt to adjust the controlling knob with one hand before pulling the electrode from the handle.

TREATMENT CHART

The following directions for the application of High Frequency Electricity are compiled from the highest authorities on the subject. To obtain the best results, treatment should be taken strictly in accordance with this Chart.

A single application of High Frequency Electricity, while it may give some relief, should not be expected to accomplish miracles any more than one spoonful of medicine. It must be followed by other treatments at regular intervals to obtain

the desired results.

In treating surface of the body, always keep the Electrode moving slowly.

High Frequency Electricity is a germicide, yet ordinary sanitary rules must be followed in the care of Electrodes. To sterilize them, immerse in weak solution of carbolic acid or in Lysol. Then wipe thoroughly with clean cloth or absorbent cotton.

Every Electrode throws a spark if held away from the body. The farther away the Electrode is held, the longer the spark and more caustic.

Never insert or remove an Electrode from an orifice of the body while the current is turned on.

Electrodes that are to be used internally should be lubricated with cold cream or vaseline before inserting.

The following terms will be used below:

- CONTACT-Means keeping the Electrode in direct contact with the body.
- LOOSE CONTACT—Means that the Electrode barely touches the body. This may be obtained by wrapping the Electrode in a handkerchief, piece of chamois or linen.
- WHEN ONE-QUARTER INCH SPARK is mentioned, turn the adjustment knob on the Generator so that the Electrode will throw a spark when held one-quarter inch away from the body and no farther.
- FOR ONE-HALF INCH SPARK, adjust the knob so that the Electrode will throw a spark to the body when it is held one-half inch away.
- A MILD CURRENT is when the Generator is just operating, and a STRONG CURRENT is when the adjustment knob is screwed in completely.
- MEDIUM CURRENT is when adjustment knob is screwed in about half way.

To obtain one-quarter inch spark, treatments may be taken through the clothing approximately one-quarter inch in thickness, etc., causing the spark to jump through the clothing to the body—or, if one-half inch spark is desired, treat through one-half inch of clothing.

In all cases use a current that is tolerable by the patient. If strong current is not tolerable at first use a medium current. It will be found that patient can stand much stronger current after first few treatments.

- ABSCESSES—To arrest growth of abscesses, use Electrode No. 1 in contact with the surface of the body on the part affected and surrounding area, using a strong current for from 7 to 10 minutes, twice daily. Use enough current to get the effect of the heat generated.
- ACNE (PIMPLES) Cauterize the larger pustules with Electrode No. 14 with one or two strong, sharp sparks to each pustule. Regulate the strength of spark in accordance with toleration of patient. Then apply Electrode No. 1 in loose contact with a medium current for 10 minutes over the entire surface affected. Treatment every third day. Cure may be expected in practically every case.
- ADHESIONS—Where adhesions follow operations or inflammatory conditions, use Electrode No. 1 with a strong current, keeping the tube in light contact, passing back and forth over the area involved, for from 7 to 10 minutes twice or three times daily.
- ALOPECIA (FALLING HAIR)—Treat over the entire scalp with Electrode No. 2, moving rapidly. Use for 5 or 6 minutes twice daily, with a medium current, keeping the Electrode in loose contact with the scalp.

- AMENORRHEA—Use Electrode No. 9 with a medium current daily. Never treat for more than 5 minutes each treatment. Always have Electrode inserted before current is turned on. Treat also with Electrode No. 15 in contact with the lower part of spine, daily for 5 minutes, with a strong current.
- ANEMIA—Treat over the entire body through thin clothing, with as strong current as possible to stand, twice daily, for 7 minutes each treatment. Treat particularly along the entire length of spine, with as strong current as possible, using Electrode No. 15. Results should be noticed in either 10 to 12 days' treatment. Ozone inhalations twice daily with Ozone Generator for 5 minutes' treatment are of exceptional value.
- ARTERIOSCLEROSIS (Hardening of the Arteries) Hold metal Electrode in the hand for 10 minutes twice daily. Use a strong current. This saturates the body with electricity and gives the arteries a cellular massage which will lower the blood pressure and soften the arteries. Treatment over the entire body with Electrode No. 1 with mild current is also very beneficial. Be careful of your diet. Don't over-eat.
- ASTHMA—Treat over the chest and throat glands with Electrode No. 4 in light contact, for 10 minutes daily, with as strong current as possible, till surface reddens. Also treat over the back between shoulder blades and down as far as waist-line. OZONE inhalations should be taken twice daily, for 5 minutes, from OZONE Generator.
- ATAXIA—Apply to the spine, abdomen and back of legs with Electrode No. 1. Treat first with daily treatments for 10 minutes with as strong current as patient will tolerate, in loose contact with the body. Gradually decrease treatments to three times a week.
- ATONIC DILATION of the STOMACH—In this disease we have complete relaxation of the motor fibres of the stomach, and treatment must be that which will cause them to actually contract and regain their normal tone. Treat with Electrode No. 1 for 5 minutes daily, over the area of the stomach, using as strong current as is tolerable, in loose contact.
- ATROPHY of the OPTIC NERVE—Close the eyes and use Electrode No. 16 and 17, with a mild current, for three minutes three times daily. Hold the Electrode in close contact with the eye-lids, and do not turn on current until Electrode is in contact with them. Turn off current before removing.
- ANUS, FISSURE OF—Use Electrode No. 6 with medium current, daily; never over 5 minutes each treatment. Turn off current before inserting or removing Electrode.

BALDNESS-(See ALOPECIA.)

- BARBER'S ITCH (SPCOSIS)—Tie handkerchief or piece of linen over Electrode No. 1 and treat over the entire surface affected, in light contact, with a strong current, 3 to 5 minutes, twice daily. Treat until you observe destruction of tissue, and should face become a trifle sore, lengthen the time between treatments.
- BOILS (FURUNCULOSIS)—Cover reasonable surface around the boil as well as on the boil itself, with Electrode No. 1, in contact, with a medium current, for 10 minutes twice daily. Soreness should be removed in one or two treatments, and the boil will come to a head much quicker.
- BRONCHITIS—Treat with Electrode No. 1 over the chest and back for 10 minutes, four times daily. Treat with a strong current through one-quarter inch clothing until surface reddens. OZONE inhalations from OZONE Generator should be used, and are invaluable in the treament of Bronchitis. Relief should be felt after one or two treatment.
- BIRTH MARKS—Treat over the surface with Electrode No. 1 in loose contact, with a strong current, for five minutes daily. Considerable time is required to remove Birth Marks and treatments must be persistent.

- BLADDER DISEASE (CYSTITIS)—Local treatment over the Bladder and lower spine with Electrode No. 1 with strong current in contact, for five minutes twice daily. No. 7 Electrode may be also used with excellent results, using for five minutes twice daily, with medium current. Inflammation is removed and urine clears very quickly in most cases.
- BLACKHEADS—Use Electrode No. 1 in contact with medium current, twice daily, for five or seven minutes. Ordinary massage treatment may be used in conjunction with the treatment of High Frequency. Faces should be thoroughly cleansed with good quality soap and hot water before applying Violet Ray.
- BURNS—Treat immediately after the burn, directly on the burned area, with Electrode No. 1 with medium current, for three to five minutes. Following this with treatments of more duration and strength for one-half hour. This will remove soreness from the burn and help it to heal rapidly.
- BUNIONS—Use Electrode No. 1 or 16 in loose contact with the Bunion, for 8 minutes, twice daily, using a strong or medium current. Soreness is removed very quickly, also the swelling.
- BLEPHARITIS (GRANULAR EYE-LIDS)—Use same treatment as for Atrophy of Optic Nerve.
- CALLOUSES OR CORNS—Treat with Electrode No. 1 or 14 with a long, sharp spark, with as strong current as possible to stand, directly on the callous, for three or four minutes twice daily. Besides removing soreness almost immediately, it will remove the corn or callous if treatment is persistent.
- CANKERS-Use Electrode No. 1 in contact with a medium current twice daily, for three minutes each treatment.
- CARBUNCLES—Treat with Electrode No. 1 in contact, with a medium current for seven minutes, twice each day. Also treat around inflamed area, keeping Electrode moving rapidly back and forth. This should make an appreciable difference in the pain and promise an early ripening of the carbuncle.
- CARCINOMA (MILD CANCER)—Removal of cancer requires application of No. 14 Electrode with shower of hot sparks causing caustic fulguration. Do not treat unless under supervision of physician.
- CATARACT—Benefit may be expected from the High Frequency current in a reasonable percentage of cases if applied in the early stages of cataract. For treatment, see Eye Diseases.
- CATARRH—Inhalations from ozone generator twice daily for ten minutes' duration each treatment, also treat bridge of nose and forehead with No. 1 in contact. Relief may be expected in every case and cure in a large percentage
- CHAPPED HANDS OR FACE—Use Electrode No. 1 in contact for seven minutes daily with a medium current moving slowly over chapped area. This treatment should be used in conjunction with creams, etc.
- CERVICITIS—Five minute treatments every other day with Electrode No. 9 for never more than five minutes' duration each treatment. Use a mild current. Care must be taken that Electrode makes contact with cervix.
- CHILBLAINS—Use No. 1 Electrode with a current strength capable of producing one-half inch spark. Keep the Electrode in contact with the skin, moving it slowly as desired. Treat for ten minutes until relief is manifested and repeat daily. A cure may reasonably be expected in practically every case.
- CHOREA (ST. VITUS' DANCE)—General Treatment with a sharp, stimulating spark to the spine, abdomen, and extremities for about fifteen minutes every other day. Treat through the clothing. Ozone from our ozone generator with three-minute inhalations daily is a valuable adjunct.
- COLD EXTREMITIES—Using Electrode No. 1 held one-quarter inch above the surface with a strong current until the surface reddens will give immediate results. Treatments should be continued daily.

COLD IN HEAD—Apply No. 1 Electrode above the eye and sides of face in contact with a medium current for ten minutes twice daily. Inhalations from ozone generator for ten minutes four times daily. Results should be expected very quickly.

COLD IN LUNGS-Treat chest and back through medium thick clothing with Electrode No. 1, using a strong current for ten minutes twice daily. Inhalations from ozone generator four times daily for ten minutes each treatment.

CHLOROSIS-Same treatment as for Anemia.

COLITIS (INFLAMMATION OF COLON)—This is a condition which does not yield to ordinary methods but which has proved susceptible to the high frequency current. Use No. 1 through clothing for fifteen minutes daily over bowel area with a medium strong current. When improvement takes place, continue three times a week. Material improvement should be expected in practically every case.

CONSTIPATION-Electrode No. 1 to abdomen in contact for ten minutes daily. Move Electrode slowly from right to left. Follow by Electrode No. 7 in rectum with medium current for five minutes daily. Turn current off while

inserting or removing Electrode.

CONJUNCTIVITIS (INFLAMMATION OF THE EYE)—Use Electrode No. 16 or 17 in contact with the closed eyelids for three minutes four times daily. Have Electrode in contact with the eye before turning on current and turn off current before removing.

CORNEAL OPACITY-Same treatment as Blepharitis.

 CONVALESCENCE — Use Electrode No. 1 with a medium strong current through the clothing so as to produce a spark to the whole body for ten minutes three times daily. This will aid the patient in regaining strength.

CYSTITIS-See Bladder Diseases.

DANDRUFF—Treat over the entire scalp with Electrode No.

2 moving rapidly. Use a medium current for from five
to ten minutes. Daily treatments are advised. Results
should be expected in ten days' treatment. Should the
scalp become irritated from too frequent treatments, use
milder current for eligibily loss duration. milder current for slightly less duration.

DEAFNESS (CATARRHAL) - Use insulated ear Electrode No. 21 in the ear as far as possible to insert with a mild current for three minutes daily. Be sure and have Electrode inserted before turning on current and turn off current before removing. Follow this treatment with Electrode No. 1 in contact behind the ear with a medium current for five minutes twice daily. Ninety per cent of the cases treated will yield remarkable results. Complete cures may not always ensue, but improvements will be marked in practically every case. Should the sensation of heat become too great, stop treatment for a time. The roaring sound should cease after one or two treatments.

DIABETES-Apply over abdomen with Electrode No. 1 through thin clothing with a strong, sharp spark for ten minutes daily. Three to six months is the average time required to cause sugar to disappear. A cure should not be expected. Observe proper diet.

DYSPEPSIA—Electrode No. 1 in contact with a strong current for twelve minutes daily. Treat over the stomach and solar plexus. Daily inhalations of ten minutes' duration from ozone generator are very valuable.

EARACHE—Use ear Electrode, inserted in the ear as far as possible for three minutes with a mild current. This is sufficient to stop the ache in practically every case.

EAR DISEASES-The principal diseases of the ear which are benefited by the application of the Re-juvin Violet Ray Generator are catarrhal deafness, tinnitus arium (roaring sound in the ear), and earache. Method of treating each of these is given under proper heading.

ECZEMA—Treat over the area affected with Electrode No. 1 through thin gauze with a mild current for two minutes daily. If itching is intense, raise Electrode and use the sharp spark for half minute.

ENLARGED PROSTATE—See Prostatic Diseases.

- EPILEPSY-Electrode No. 1 applied to the brain and along the spine for five minutes with a medium current every other day. A cure should not be expected.
- EYE DISEASES-In treating diseases of the eye, use an eye Electrode in contact for not more than three minutes each treatment. Treatments may be taken twice daily. Be sure to have Electrode in contact with the closed eyelids before turning on the current, and turn off the current before removing.
- EPITHELIOMA (CANCER OF THE SKIN)-Use No. 1 Electrode with as long and sharp a spark as patient can tolerate for three or four minutes each treatment. Treat every The X-ray is the best method of treatment in other day. these cases.

FALLING HAIR-See treatment for Alopecia.

FURUNCULOSIS-See treatment for Boils.

FISTULA-Same treatment as for Anus, Fissure of.

- FROST BITES—Use Electrode No. 1 with short spark. Hold about one-quarter inch from body with a medium current. Treat hourly for from three to five minutes each treatment.
- GLEET-Use Electrode No. 7 or 11 for never more than five Use medium current. Apply lubricant, minutes daily. such as cold cream, before inserting. Unless under direction of physician, we would advise that No. 7 Electrode be used and not No. 11, as it is a much easier form of treatment and will give results just as quickly. Always turn current off before inserting or removing Electrode.
- GOITRE-Treat around and on the Goitre with Electrode No. 1 or 4 in contact with a strong current for five minutes daily. After this treatment, raise the Electrode about one-quarter inch and treat directly on the Goitre with a sharp spark until surface reddens. Results should be apparent in about fourteen treatments and a cure may reasonably be expected in a great majority of cases.

GONORRHEA-(MALE)-Follow directions given under Gleet. (FEMALE)-Follow directions given under Cervicitis.

- GOUT-Treat with Electrode No. 1 in contact for five to ten minutes daily, using a mild current to start treatments and gradually increase the strength with each succeeding treatment.
- (RESTORE TO NATURAL COLOR) Use GRAY HAIR (RESTORE TO NATURAL COLOR)—Use
 Electrode No. 2, moving rapidly over the scalp for five
 minutes daily with a medium current. Results will not
 be noticed until after at least four weeks' treatment.
 Treatments must be kept up for possibly three or four
 months, but if continued and used regularly, results may
 be expected in practically every case.

GRIPPE (INFLUENZA)—Treat over the spine, solar plexus, eyes, and sides of nose with Electrode No. 1 with a medium current and through thin clothing for from five to seven minutes twice daily. Use inhalations from ozone generator twice daily for ten minutes each treatment.

HOARSENESS-Use Electrode No. 5 in loose contact with the throat for five minutes each treatment four times daily. Use a medium strong current. Results should be apparent

in a very few treatments.

HAY FEVER-Use No. 21 Electrode directly in the nose with a mild current for from three to five minutes daily. Also use ozone generator for ten minutes daily each treatment. If used two weeks before the attack of hay fever comes on this is generally sufficient to prevent the attack. It will relieve if used during the attack.

HYPERTENSION-See Arteriosclerosis. HYPOTENSION (HIGH BLOOD PRESSURE)-Same treatment

as for Anemia or Chlorosis.

HEADACHES-Use Electrode No. 1 in loose contact for five to ten minutes, moving rapidly over the base of skull at the back of the neck. Also treat for a short distance down spine and wherever the ache is apparent. One treatment is generally sufficient to stop the headaches, but if it is chronic, they should be continued every two hours if possible. This method of treatment relieves the pressure from the nerves which run from the spine at the base of the skull to all parts of the head.

- HEART DISEASE—If the blood pressure is low, treatments of sharp sparks to the spine for about five minutes twice daily will increase the blood pressure. Also treat with sharp sparks on the solar plexus.
- HEMORRHOIDS—They may be relieved with our No. 14 fulguration Electrode. We would advise that they be used only under physician's care.
- HIVES AND RASH—Treat with No. 1 Electrode over the entire area affected, using medium current in contact for from three to five minutes daily.
- INSOMNIA (SLEEPLESSNESS)—Use Electrode No. 1 or No. 15 in loose contact with the back of head and neck for five minutes, followed by a medium current in contact for three minutes over the eyebrows. Also use No. 3 Electrode held in the hand for ten minutes with a medium current.
- IMPOTENCE—Use a No. 1 Electrode with enough current to produce a spark one-quarter inch in length. Keep the tube in loose contact with the surface while it is passed back and forth over genitals, inguinal, and bladder regions and to the lower half of the spine. With the spinal application raise the Electrode to get reasonably stimulating sparks. Treat daily for ten minutes each treatment.
- a strong current with Electrode No. 1 held one-half inch above the surface so that a shower of sharp sparks strike the itching parts. After this treatment, which should be continued for about one-half minute, use a mild current with the Electrode directly in contact for two minutes. Relief is generally immediate, although very often only temporary.
- INFANTILE PARALYSIS—Use a spark of approximately one-quarter inch in length and treat through the clothing with strong stimulating sparks to the spine and over all the paralyzed muscles. Treatments should be taken twice daily and of ten minutes' duration each treatment. Also use No. 3 metal Electrode held tightly in the hand for five minutes twice daily. Very good results should be expected.

INFLUENZA-See Grippe.

INDIGESTION-Follow instructions given under Dyspepsia.

IRITIS-Follow instructions given under Eye Diseases.

LARYNGITIS—Use Electrode No. 4 with a medium current in loose contact with the throat for ten minutes daily. Inhalations twice daily with ozone generator for ten minutes each treatment. Inflammation in most cases will disappear after very few treatments.

LEUCORRHEA-Follow instructions given under Cervicitis.

LICHEN RUBRA—(A PAPULAR INFLAMMATION OF THE SKIN)—Follow directions given under Skin Diseases.

LOCOMOTOR ATAXIA — Treat particularly well over the spine, abdomen and back of legs for ten minutes daily. Use a strong current and treat through clothing. Ten minutes' treatment daily, holding metal Electrode No. 3 in the hand is of exceptional value. Beneficial results may be reasonably expected in a large number of cases.

LOW BLOOD PRESSURE-See Anemia.

LUMBAGO—Treat with Electrode No. 1 through one-half inch clothing with as strong a current as patient can stand until relief is given. Treat over small of back and have patient assume different positions until he or she can feel comfortable in any position. One treatment is generally sufficient to stop the pain and a cure may reasonably be expected with continued treatments.

LUPUS (TUBERCULOSIS OF THE SKIN)—Treat over surface with a strong sharp spark from any Electrode raised one-quarter inch above surface for three to five minutes.

MASSAGE—Let patient hold metal Electrode No. 3 in one hand. Then turn on strong current. Massage in the usual way. Masseur will draw sparks to the point massaged. Always turn off current before removing Electrode from patient's hand. Patient should not be in contact with any metal or grounded object.

- MENOPAUSE (CHANGE OF LIFE)—Mild application of sparks through thin clothing along the spine to the back of head and neck and over the abdominal regions, taking fifteen to twenty minutes for the treatment daily.
- MOLES AND MOTH PATCHES—Electrode No. 1 in loose contact with good strong current for three to five minutes every other day.
- MUMPS—Treat over the swollen glands with Electrode No. 4 in contact. Use medium current for five minutes three times daily. Soreness may be relieved in a short time.
- NASAL DISEASE—These diseases treated under separate heading.
- NERVOUS DISEASES—Treat over the spine, back of neck, and head for ten minutes daily with Electrode No. 1 in loose contact, using a medium current. Also hold metal Electrode No. 3 firmly in the hand for ten minutes daily, using a strong current. Ozone inhalations from our ozone generator for ten minutes daily are of exceptional value and should be taken if possible.
- NEURALGIA—Use Electrode No. 1 over the painful area and spine with as strong a current as patient can stand for ten minutes daily. Treat through underclothing. All treatment is the same for all varieties of Neuralgia and results in practically every case are certain.
- NEURITIS—Start treatments directly in contact with inflamed area with a mild current for about three minutes daily. After the first three or four treatments, gradually increase the strength of the current and also increase the length of treatment, raising the Electrode a little farther from the surface each succeeding treatment. The first three or four treatments may aggravate the pain but this is a good sign so do not discontinue treatments. One high authority claims a complete cure should be expected in every case of Neuritis.
- OBESITY—Use Electrode No. 1 in direct contact over the entire body for fifteen minutes daily, using a medium strength current. In cases where the reduction in weight is not so great, it will be found that the re-distribution of fatty tissue to different parts of the body will greatly aid bodily comfort.
- PARALYSIS—Treat with Electrode No. 1 through the clothing, using as strong a current as patient can tolerate for about fifteen minutes twice daily. Treat particularly on the paralyzed portions and also on the spine. Our experience has been that a great many cases receive benefit.
- has been that a great many cases receive benefit.

 POISON IVY—Use Electrode No. 1 with long, sharp spark and strong current for three to five minutes daily.
- PNEUMONIA—Treat over the chest and back through the clothing with Electrode No. 1. Use a strong current until the surface reddens. Treatments should be taken twice daily. Also use ozone inhalations for five minutes each treatment twice daily from ozone generator. Relief should be experienced in a fairly short time.
- POST-FRACTURE CONDITIONS—Local application of Electrode No. I with a mild current in contact for five minutes twice daily will aid greatly in relieving soreness and help in bringing about a cure in a shorter time.
- POST-OPERATIVE CONDITIONS—Same treatment as for Post-Fracture Conditions.
- PROSTATIC DISEASES—Electrode No. 7 with a medium current for never more than five minutes daily. Use lubricant such as cold cream or vaseline before inserting and always insert Electrode before turning on current and turn off current before removing. One high authority claims that ninety-five per cent of the cases of this ailment treated by him have been apparent cures and no case in which perceptible improvement was not noticeable.
- PSORIASIS (A CHRONIC INFLAMMATORY SKIN DISEASE)
 —Same treatment as given under Skin Diseases.
- PYORRHEA—Place Electrode No. 44 directly in contact with the gums. Turn on current so that it is very mild and treat all around the gums for three minutes moving the Electrode fairly rapidly. Use treatments once daily. Turn off current before removing Electrode.

PIMPLES-See Acne.

PILES-Same treatment as for Hemorrholds.

RECTAL DISEASES-Same treatment as for Prostatic Diseases.

- FHEUMATISM—Use Electrode No. 1 on and around affected area through the clothing for fifteen minutes twice daily. Use as strong current as is tolerable and treat until surface reddens. Relief from pain should be felt in a very few treatments and the swelling should disappear to a great extent.
- RED NOSE (ACNE ROSACEA)—Same treatment as given for
- RING WORMS—Use Electrode No. 1 with medium current and hold about one-quarter inch above the surface for from five to six minutes daily.
- RODENT ULCER-Fulguration Electrode No. 12 is used to destroy the affected tissue. Hold Electrode about onequarter inch above the surface and treat with a mild current for one-half minute until tissue has disappeared.
- SCARS—The object in treating scars is to destroy the tissue.

 Use Electrode No. 1 with a strong current and a short spark over the scar for four to five minutes daily. Treatment may have to be continued for a considerable length of time to obtain the best results.
- SCIATICA—Follow instructions given under Neuritis, being careful to start treatments with a mild current and gradually increasing the strength and length of treatment from day to day.
- SEBORRHEA-Same treatment as given for Dandruff.
- SKIN DISEASES—First, tie a handkerchief or piece of linen around the bulb part of Electrode No. 1. This allows a shower of sparks to pass from the Electrode to the body at the same time it prevents the Electrode from making contact. Treat with a medium strength current for from three to five minutes daily.
- SORE FEET-Treat with Electrode No. 1 in contact with a strong current from five to eight minutes twice daily or more often if necessary.
- SORE THROAT—Same treatment as for Hoarseness. Inhalations from our ozone generator are of exceptional value and should be taken twice daily for six minutes' duration each treatment.
- sprain is of long standing, use a strong sharp spark by holding Electrode from one-quarter to one-half inch above the surface. If otherwise, use Electrode No. 1 directly in contact with a strong current for ten minutes twice daily.
- STIFF NECK-Same treatment as for Stiff Joints.
- STRICTURE OF THE URETHRA—Use Electrode No. 11 with a mild current for five minutes daily. Use cold cream or similar lubricant on Electrode before inserting. Be sure and have Electrode inserted before turning on current and turn off before removing.
- SYCOSIS—See Barber's Itch.
- TONSILITIS-Same treatment as for Sore Throat.
- TINNITUS AURIUM (ROARING SOUND IN THE EAR)-Follow treatment given under Catarrhal Deafness.
- TUBERCULOSIS—Inhalations of ten minutes duration three times daily from ozone generator are of exceptional value in the treatment of Tuberculosis. A cure should not be expected, but great relief may be felt in the majority of cases.
- URETHRITUS-Same treatment as for Gleet.
- than five minutes daily with a medium current. Use cold cream or similar lubricant before inserting and be sure current is turned off before inserting or removing Electrode.

WARTS—Electrode No. 14 held one-quarter inch above the surface of the wart so that a shower of sparks flows from it to the surface. Treat until wart turns white on top and tissue is destroyed. Two days later follow with the same treatment. Avoid picking wart with finger nails. No scar will be left if treatment is given successfully.

WRY NECK—Treat back of ears and down the back and sides of neck with Electrode No. 1, using a strong current and holding Electrode directly in contact. After continuing this treatment for five minutes, raise the Electrode and pat the surface treated for five minutes longer.

WRITER'S CRAMP—Apply Electrode No. 1 from the finger tips to shoulder and upper spine, using a strong current with sharp sparks for five minutes twice daily.

Pine Needle Oil

For use in Ozone Generator.

Per Bottle \$0.50

Insulated Electrodes

The insulation of Electrodes prevents leakage of current at side walls and delivers full benefit at point of contact with parts to be treated. In using internal Electrodes always insert before turning on current at the knob, and turn off current before withdrawing Electrode.

NOTICE

After a week's use of the Generator if results are not satisfactory, call at our office and we will give you full instructions for use in your particular case.

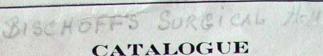
678 Chamber of Commerce Building
Twelfth and Broadway
Los Angeles, California

Office Hours:

9:30 A. M. to 4:00 P. M.

Saturday 10:00 A. M. to 12:00 M.

Telephone: TUcker 4673



High Frequency Violet Ray Electrodes



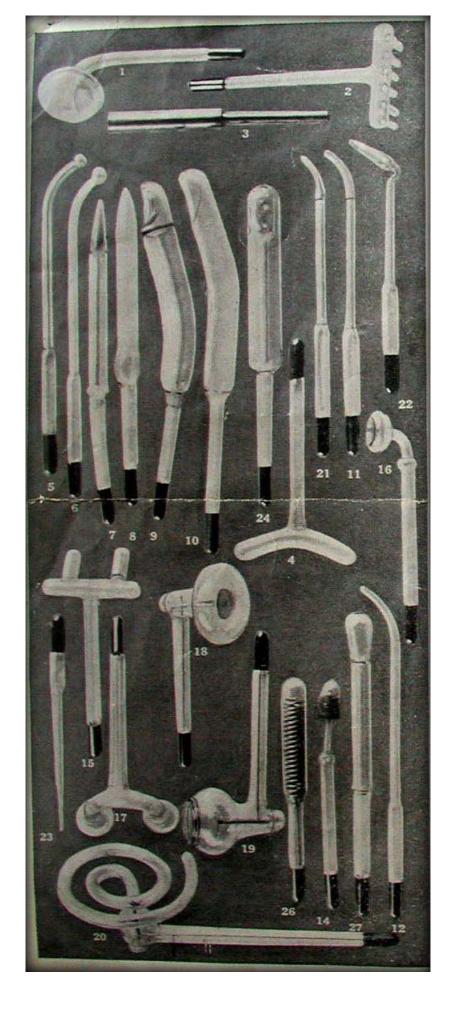
Re-javin Violet Ray Co.

678 Chamber of Commerce Bldg.
Broadway at Twelfth
Los Angeles, Cal.

High Frequency Violet Ray Generator

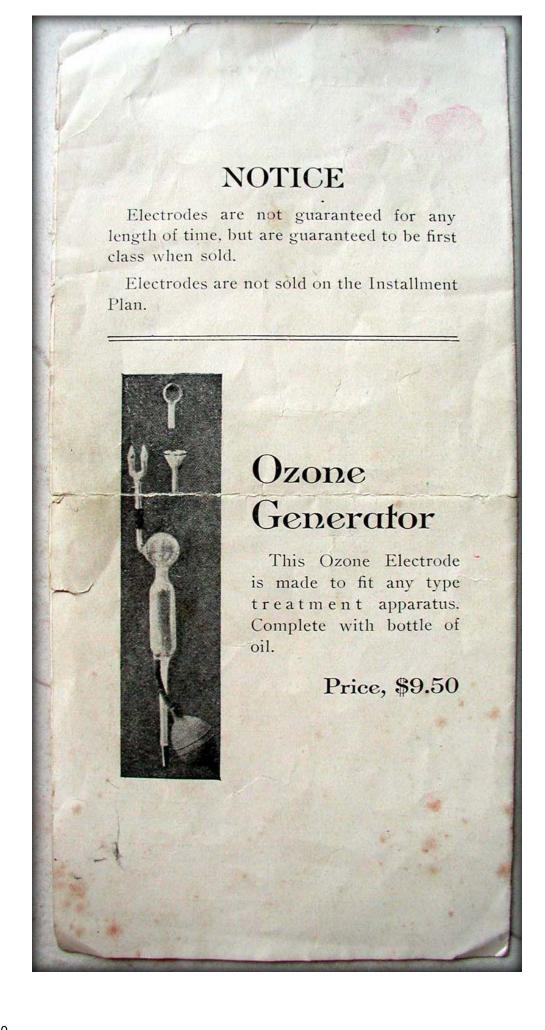
See Our Prices

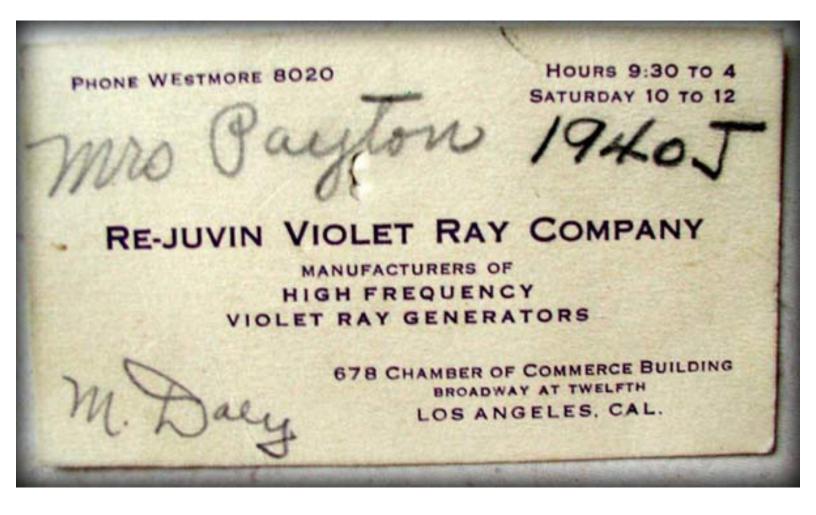
Sold on the Cash or Installment Plan or Rented by the Month



DESCRIPTION OF ELECTRODE USES AND PRICE LIST

No. 1-Surface or General Body Electrode,
suited for all exterior surface treatments. \$1.00
No. 2-Rake Comb Electrode, especially for
Scalp Treatment, Falling Hair, Dandruff,
Gray Hair 2.25
No. 3—Metal Electrode, held tightly in hand for systemic treatment—Nervousness, Ane-
mia, etc.; also held by person while being
given a hand massage for face or scalp
by another person
No. 4-External Throat Electrode, specially
designed to fit closely over neck, for
Goitre, Tonsils, Double Chin, etc 1.75
No. 5-Internal Throat Insulated Electrode,
particularly for professional use
No. 6-Internal Throat Plain Electrode. par-
ticularly for professional use
No. 7—Rectal Insulated Electrode, designed
for treatment of prostatic trouble
No. 8-Rectal Plain Electrode, also for rectal
and prostatic treatment, professional use 1.25
No. 9—Vaginal Insulated Electrode 2.00
No. 10-Vaginal Plain Electrode 1.25
No. 11-Urethral Insulated Electrode, par-
ticularly for professional use 2.00
No. 12-Urethral Plain Electrode, for pro-
No. 14—Fulguration Electrode, for cauteriz-
No. 14—Fulguration Electrode, for cauteriz-
ing and removing blemishes, scars, warts,
No. 15—Spinal. Electrode, best. for spinal
treatments1.75
No. 16-Single Eye Electrode, made to fit
over eye, with lids closed 1.25
over eye, with lids closed 1.25 No. 17—Double Eye Electrode, for treating
both eyes at the same time
No. 18-Condenser Electrode, made with
metal conductor within vacuum to concen-
trate current, producing strong, even flow.
Best for deep-seated cases in place of No. 1 3.50
No. 19—Cataphoric Electrode, for profes-
Sional use
NO /II—STITAL PRECITORS
No. 21—Ear and Nasal Insulated Electrode,
for internal ear treatment for deafness;
also for internal nose il cathleticina
No. 22—Ear Special Insulated Electrode, best
No. 23—Ear and Nasal Plain Electrode, for
intermed treatment of nose and cal, for pro-
1
Ma 24 Chesial Vaginal Electrode, made
the same live continuing the fill and the same of the
No. 27—Special Prostatic 2.50





RE-JUVIN VIOLET RAY CO. TUcker 4673 Office Hours: High Frequency Violet Ray Generators 9:30 to 4 678 Chamber of Commerce Building Saturday: 10 to 12 Broadway at Twelfth Los Angeles, Calif. The delivery of RE-JUVIN VIOLET RAY GENERATOR, Model B, Factory No. 4736 for which I agree to pay the Re-juvin Violet Ray Company the sum of Forty-nine and 50/100 Dollars (\$49.50) as follows: \$10.00 with this order, RENTAL FOR ONE MONTH \$10.00 on theday ..., 1926; \$10.00 on theday of....., 1926; \$ 9.50 on the payable at its office, 678 Chamber of Comperce Building. It is further agreed as follows: That if said personal property is paid in full within thirty days from the execution of this contract, a discount of Said personal property is owned by and shall remain the property of the RE-JUVIN VIOLET RAY COMPANY until fully paid for, but at the bayer's risk from time of delivery in case of loss, injury or destruction from any cause.

Said personal property shall not be removed from present address without notifying this office, nor shall the buyer transfer possession of said property without the written consent of the Re-juvin Violet Ray Company.

Default in any paymont when due or failure to comply with any of the covenants or agreements herein contained shall work a forfeiture of all buyers rights in or to said property or any moneys which may have been paid hereunder, it being expressly understood that all money so paid shall be for the rental of said personal property.

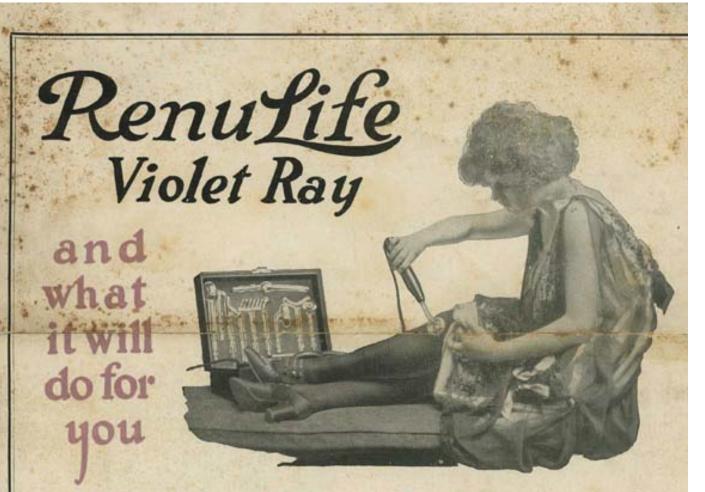
The buyer hereby agrees that in the event of any repairs being necessary within one year from the date of this contract, he will return said denerator to the office of the Re-juvin Violet Ray Company for repairs.

The Re-juvin Violet Ray Company shall not be bound by any representations or agreements not contained herein.

Time is the essence of this contract. Accepted for the

City..... Phone.....

RE-JUVIN VIOLET RAY CO.



Renufife Violet Ray Points Out the Road to Health

The Renulife High Frequency Generator brings the great benefits of the Violet Ray to the home. It is a scientific means for the relief of pain, the cure of sickness and the up-building of the body.

No matter in what respect the body ailing acute disease, or general weakness-the Renulife Generator will prove its merits.

Scientific Treatments at Home

While the medical profession was interested in the Violet Ray High Frequency current from the day its discovery was announced, suitable instruments for producing it were too big and too expensive for home use. The value of the Violet Ray to mankind was fully appreciated by the great minds of the scientists.

We have perfected a Generator at a moderate price to be within the reach of all. coult, Repulife Violet Ray is now almost universally used. it in the home as well as in the progressive doctor's office, the hospital, the sanitarium and almost every place where human ills are treated.

What Renufife Violet Ray Does

Renulife Violet Ray when applied to the body penetrates every nerve, cell, fibre and tissue-works its health giving powers and passes off into the atmosphere.

Renulife Violet Ray charges the blood with oxygen and nutrition. It increases the circulation, causing the enriched and purified blood to restore and build up destroyed tissues while poisons and inflammations are dissolved and carried away.

Your Repulife Violet Ray in your own home, will enable you to take the daily treatments, so necessary in most cases, without the time, inconvenience and expense of going outside for such treatments.

RENULIFE ELECTRIC CO.

What Renufife Violet Ray Is

Renulife High Frequency electric current, commonly called "Violet Ray," is produced by conducting the ordinary lighting current through a series of special coils, which cause such tremendous rapidity of electrical oscillation that human nerves are insensitive to it. It is applied to the body through a vacuum glass attachment, or electrode, which glows a light violet or purple color. The Violet Ray causes no pain, muscular contraction, or unpleasant sensation. It is gentle

and pleasing, yet most stimulating and invigorating.

It is a thorough treatment, the irresistible, revitalizing powers of the Renulife Violet Ray being carried at once to every nerve, cell, fibre and part of the body-even the heart

is saturated,

DETROIT, MICH.





A Great Scientist Says:

Model

"If the equivalent of this great pain reliever, antiseptic, and promoter of metabolism had been a new serum or antisoxin, or some psychic fad, half pseudo-accesse and half quark religion, the fame of it would have sweet around the world in three months. But this remedy—more far reaching for good than exploited catarrh and cough cures, and vaunted 'regetable compounds,' and all the combined 'heat sellera' of patent medicine factories, in which the American public invests some hundred million dillars and twenty per cent of its health per year—happens to be only one phase of an electric current, modest, reticent, and conservative, the study of skilled men, the subject of a decade of scientific investigation; and so it has paintifly cent into quier recognition during the past ten years, tested by progressive physicians here and there, and more in Europe than here, get sever ioning ground once made, ever grining increased confidence and now slowly coming lyao its own."—S. H. Montell, M. D. (a foremust thinker in the medical world, and electrotherapeutics has done nose for electricity han any other living man.) other living man.)

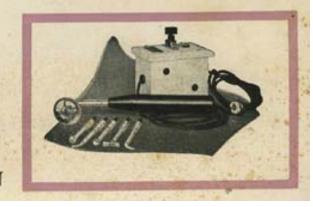
\$75.00

Model D

This is a special Denial Generator designed to give a recreed of extremely high frequency, very smooth in its action and giving no repleasant result to the p tient. High Frequency as produced by our appoint Denial Model D. is of particular value in the treatment of Abscesses, Pyorches Avendaris, Post-Operative pair, ear.

Made sanitary and attractive with white enamel finish, complete as shown with No. 1 General Sociate Electrode and the full set of line stated burnal Electrodes.

DETROIT, MICHIGAN



RenuLife Violet Ray

A Penetrating Treatment

The voltage is raised from the ordinary lighting current to several thousand volts which gives it tremendous driv power or penetrative force. It increases the oxygen in the blood, enriching and purifying it, and giving added vita and strength, and so eliminates the poisonous waste products to which most disease is due.



Rheumatism is almost sure of rebef y treatment with the Renulife Violet

Ray Generator We have never known of a thorough We have never known of a thorough course of treatments falling to give relief. In some cases every trace of the disease has disappeared after a very few treatments. In severe cases, which have been dragging along for years, a series of treatments is generally required, but beneficial results can be just as confidently expected. dently expected.

Neuritis



Dr. Noble M. Ebernart of Chicago, recognized as the greatest authority in the world on Electro-Therapeutics, states that the High Frequency current is positively curative in all cases of neuritis. His statement is borne out by the innumerable testimonials in our files, many of which record early and complete recoveries

The Renulife Violet Ray reaches and treats the cause of Nervous Disorders disease and so strikes at the very root of the disturbance.

It will relieve your pain. No matter whether you have a splitting headache, an excruciating case of sciatica, swollen and throbbing inflammatory rheumatism, neuralgia almost severe enough to drive you wild; the burnings of indigestion, or the dull dread dragging of a lame back, the Renulife Generator will benefit you.

Goitre



Excellent results have been recorded in the treatment of goitre. The High Frequency Violet Ray has a tendency to dissolve and absorb any growth tissues Physicians report that they have had very few cases of goitre which did not yield to the Violet Ray Treatment.

Headache



Repulife Violet Ray relieves the nerve pressure which is at the root of the disturbance and improves the general physical condition

Early relief is assured without the use



The Resulife Generator does nerves just what the name implier renews the life of the nerves. By tre renews the life of the serves. By tre
the spinal column with High
quency Violet Ray current
entire sympathetic nervous systes
given a cellular massage which can onl
obtained by this mirthod of treatmer
electricity. The most severe case
Insomnia, Brain Fag, Neurautheni
Nervous Breakdown yieldin a remark
about time to the Renulife Teeatmen



Resultfe Ozone Generators Resultée Ozone Generators de Ozone in large quantities for inha purposes. The Ozone penetrates cell in the lungs, purilying the I destroying disease germs and so the inflamed tissues. For As Catarrh, Hay Fever, Coughs, C Bronchitis, Tuberculosis, etc., there better treatment known,

Complete Directions Furnished

With every Renulife Generator complete directions are furnished explaining the use of the instrument for treating all ailments for which Renulife Violet Ray is recommended. These directions have proven effective in thousands of cases, and when followed carefully, results should be quick and positive.

How and Where Renulife Generators are Made

Renulife Violet Ray Generators are made in our laboratories in Detroit by experienced craftsmen and under the most rigid inspec-

In developing these generators a great deal of experimental work was done over a period of years and the present models represent a high state of development which would not have been obtainable without the constant study and experiment which has been dev to these instruments.

The entire process of manufacturing these generators is slow careful, and each generator is a perfect piece of work, correct in e detail and sure to last and give efficient service for years. A guara protects each generator against all defects for a period of one year

RENULIFE ELECTRIC CO.

DETROIT, MIC



Ireatments at flome



High Frequency Violet Ray Treats Wide Range of Ailments

"I have expressed my individual opinion on many points—it is hased upon 15 years practical experience involving the daily use of High Fre-quency Currents and upon 13 years' experience in teaching the subject." Dr. Eberhart recom-mends the use of Violet Ray High Frequency current in over 200 human maladies and ail-ments.—Noble M. Eberhart, M. D., Ph. D., UNIVERTED AV. IS DECOMMENT.

VIOLET RAY IS RECOMMENDED FOR THE FOLLOWING AILMENTS:



Model X \$22.50

Physicians and Individuals Recommend High Frequency Violet Ray

STATEMENTS OF RENULIFE USERS

Better Than for Years—I have used generator for three weeks and can say I am feeling better than have been for



Model V \$12.50



Model H \$12.50

rom Your iaht Socket

HE mighty forces of electricity are harnessed in a health-giving administration, pleasant and safe

as sunshine—yet powerfully effective.

We believe that we may be pardoned for taking pride in having designed and produced the Renulife Violet Ray, an apparatus for self-treatment, procurable at a price within the reach of all. Per-



sistent daily application will often accomplish in chronic cases more satisfactory results than less often applications given by a specialist with the most expensive apparatus.

GET A DEMONSTRATION

Manufactured by Renultie Electric Co., Detroit

Renulife — THE SCIENTIFIC APPLICATION FOR MANY AILMENTS



Explanation of Violet Ray

HE same current that is brought into the house for lighting and to furnish power is completely modified by conducting it through a series of coils and other units which make up the Violet Ray Generator. This has the effect of reducing the volume or amperage to a very low measure, while the pressure or voltage is tremendously increased and the oscillation raised exceedingly high. The result is that when this current is applied to the human body our nerves are insensible to the electric waves because of their enormous rapidity. The High Frequency current is pleasant and painless, yet penetrating and health promoting.

Violet Ray High Frequency has an entirely different effect on the human body from the old-fashioned, shocking current. Violet Ray High Frequency gives no shock and causes no pain or muscular contraction.

'High Frequency is applied through a vacuum glass attachment called the "electrode." In this glass tube the High Frequency current abows in a violet colored glow, and thus arises the name "Violet Ray."



Model K \$30.00

Its Action on the Body

HE Violet Ray acts on the blood, circula-HE Violet Ray acts on the blood, circulation, nervous system, cells and tissues. There is some intimate relation between electricity and life itself. Science has not yet exactly defined this relation but the evidence of its existence is accumulating as the world's knowledge increases. Some have gone so far as to declare that "electricity is life."

to declare that "electricity is life."

High Frequency current—Violet Ray—works in harmony with and to the benefit of life cells. Wonderful demonstrations have recently been made showing that even vegetation responds in an astonishing manner to this force. Gardens have been charged with High Frequency current, causing the germinating life in the seed to spring up with a rapidity of growth and luxuriant development most remarkable.

The Physiological action of Violet Ray applied through the glass vacuum electrode may be summarized: Benefits all nutritive processes; the oxygenation of blood and tissue and increased elimination. To these primary results is attributed the great potency of the Violet Ray as an agent for relieving and eradicating human ills and restoring normal, healthful functioning of disordered parts.



Summary of Vacuum Effects

HERE is no painful sensation produced when the vacuum tabe is held firmly in the hand or directly in contact with the skin of the body. Some heat is noticeable. When removing the tube away from the point of contact a stimulating spark is produced.

SUMMARY OF VACUUM TUBE EFFECTS

- MARY OF VACOUM TUBE EFFECTS
 Increased blood supply to a given area.
 Increased oxygen in the blood.
 Increased elimination of waste products.
 Increased bodily heat without a corresponding rise in temperature.
 Locally germicidal.
 Mild sparks stimulate or soothe according to length and character of application.
 Strong sparks are caustic.

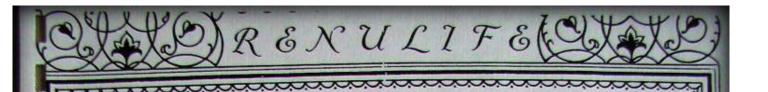
- Strong sparks are caustic. Sparks to the spine increase the arterial

These effects, while essentially local, are not entirely so. The current traverses the body in all directions from the point of entry, but is, of course, most intense and pronounced at the latter point.



(C) Jeff Behary 2020





RENULIFE

High Frequency (Violet Ray) Health Generators

AS AN AID TO

HEALTH

Data relating to the physiological effects of High Frequency Electricity as presented in this catalog were taken from the writings of the well-known authority —NOBLE M. EBERHART, M. D., Ph. D., D. C. L.

High Frequency Electricity



HE action of High Frequency Electric Current on the human system is so similar to the normal functions of vigorous health that researchers have stated it to be the nearest approach to artificial life force.

Popular conception of electricity is in general limited to the current used for light and power. High Frequency Electricity has nothing in common with such current except that it is a form of electricity.

High Frequency Electric Current is applied by a vacuum glass attachment called the Electrode in which the current shows as a violet colored glow. From this comes the name Violet Ray.

Every one is familiar with the force attained by water shot in a straight stream from a garden hose. Ordinary pressure sends this stream of water out of the nozzle with such force that it digs out the soft earth of a flower bed with destructive results. But adjust the nozzle so that the stream is broken up by the screen inside and the same pressure sends the volume of water out in a fine spray, a mist so gentle that it waters the flower bed like rain, a natural, beneficial force.

Thus, ordinary electricity is the hard destructive force while High Frequency Electricity is the stream broken up into infinitely tiny forces that, properly applied, are beneficial to human ills.

The Beneficial Effects of High Frequency Electricity

Modern life as most of us live it has a tendency to exhaust the human organism; weakness may develop in one of many vital organs and the power to resist is gone. Poisons creep into the system and gradually a form of illness makes its insidious approach. Few of us are immune to this weakening process.

Lack of exercise, so common today, induces stagnation of the blood flow and brings about a weakened power of resistance.

Almost all human ills are the result of a lowered physical resistance—they attack the body when it is not strong enough to ward them off. Even the slightest headache, the daily fatigue and the irritability due to frayed nerves—those and other annoyances not important enough to consider as sickness—are caused by lowered physical resistance.

Keep the human engine running smoothly and it will have the strength to resist disease and illness.

Science has come to recognize High Frequency El ctrical Current as the greatest normalizing agent known. In brief the principal effects are as follows:

Increased oxidization and local nutrition.

Increased blood supply to a given area (Hyperemia).

Increased secretions.

Increased elimination of waste products.

Increased oxygenation, with the resultant benefit of more or less ozone being inhaled by the patient, and also probably carried directly into the tissues.

Locally germicidal.

Stimulates or soothes according to length and character of application.

Strong sparks are caustic.

Sparks to spine increase arterial tension.

Promotes absorption of plastic exudates or adhesions.

These effects of vacuum tube applications while essentially local, are not absolutely so. The current traverses the body in all directions from the point of entry, but is most intense and pronounced at the latter point.

Tonic Properties

The soothing and stimulating effect of High Frequency Current from Renulife Health Generators is a quick, decisive antidote for mental or physical exhaustion. A few moments' application at such a time will help to sweep the poisons of fatigue from the depressed nerve centers, and wonderfully refresh with oxygen and new vitality.

The daily use of High Frequency Current should bring return of sleep, induce relaxation, stop pain and renew potential energy.

The Effects of High Frequency Current on Metabolism

High Frequency Current combines three important actions on the process of metabolism

—that is to say, the process by which food is converted into bodily tissues and cells.

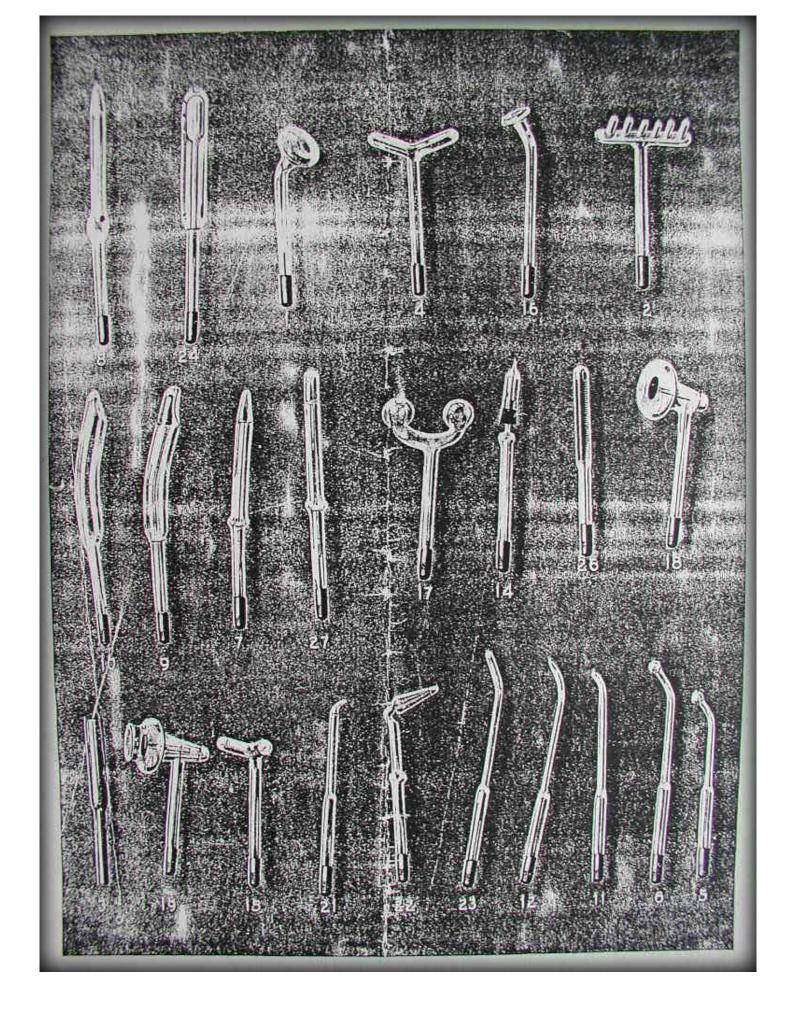
- It increases appetite and relish for food and improves the completeness of digestion.
- It increases the amount of oxygen taken into the lungs by improving the function of respiration and,
- It increases the delivery of oxygen throughout the system—and so acts as a systemic tonic which refreshes the whole body structure.

High Frequency Current through vacuum electrodes stimulates circulation of blood and increases oxygenation of blood; relieves local congestion, often removes cause of bodily suffering and tones up the entire nervous system.









Business and Professional Men and Women

HIGH Frequency Current is so effective as an immediate tonic and restorative that men and women on the verge of acute breakdown, through strain or worry, have been invigorated and refreshed and kept vigorous—with undiminished capacity for work, return of sleep and a zest for meals.

It puts buoyancy into the steps of men burdened with cares and responsibilities. Takes the drawn look from the face. Teachers find it very helpful, as do students and brain workers.

Beauty Requires Health

If you do not feel well you cannot look well. Many women realizing that good health is essential to real beauty and the prolonging of youth use Renulife Health Generators with faithful regularity.

The fresh, clear complexion and the wholesome animation resulting from a natural blood circulation gives a look of youth and beauty impossible to simulate by the use of artificial stimulants or cosmetics.

Cases of those who suffer from illness, cases of extreme insomnia, neuritis, rheumatism and many other serious ailments that have been relieved immediately by the use of High Frequency Current are not at all unusual. Neuritis, one of the most vicious modern ills, has been permanently relieved by the use of High Frequency Current.

Thousands are finding their way back to health and happiness, countless others are keeping themselves physically fit to ward off the hosts of diseases and sickness, and still others are using High Frequency Current to maintain their physical attractiveness and business efficiency.

High Frequency Current Recommended by Authorities for Treatment of More Than 125 Ailments

Used extensively by physicians, Renulife Health Generators, shown in this catalog, are manufactured for use by the individual in the home. Renulife Health Generators are suggested for use in the treatment of the following ailments:

ASTHMA
BALDNESS
BRONCHITIS
CATARRH
CIRCULATORY DISORDERS
COLDS
DANDRUFF
DEAFNESS

ECZEMA
ENLARGED PROSTATE
FACIAL NEURALGIA
GOITRE
GOUT
HAY FEVE!P
INFANTILE PARALYSIS
INFLUENZA

NERVOUS AFFECTIONS
NEURALGIA
NEURITIS
PARALYSIS
RHEUMATISM
SCIATICA
SKIN DISEASES
(And many other ailments)

A booklet of instructions, written by Dr. Noble M. Eberhart covering a list of 127 ailments for which High Frequency Current is recommended, accompanies each Renulife Generator



Just One of the Many Letters of Enthusiasm

Letters similar to this come in daily from people representing every strata of life. Famous motionpicture stars, prominent business leaders and just folks write earnestly of the health and happiness derived from the use of Renulife Treatments

(Photographic Copy)

negugor Ja Oct + 1919 Remaly Electric & Luc. Sitroit Mid Cauchenel. I feel almost certain of a complete

Ozone

The blood is the life fluid of the body. Health depends on its purity. Blood is made up of two parts. First, the plasma, which is the white, transparent fluid and second, the corpuscles. There are two kinds of corpuscles—white and red.

The red corpuscles are the oxygen carriers. And every part of the body needs oxygen in unfailing quantity all the time. The red corpuscles gather oxygen from the lung cells and carry it to all parts of the body.

People who are deficient in red corpuscles, or whose corpuscles are not good oxygen carriers, are never really healthy. Their skin is sallow. They suffer from headaches, from loss of appetite, from restlessness. They catch diseases easily—and never feel really right. Their noses, throats and lungs are always slightly or seriously irritated.

Ozone is a stimulant without any reaction. In a sense it is concentrated oxygen—that vital element without which life would cease.

Ozone acts directly on the blood, increasing the oxygenation of the blood. It brings increasing health and vigor to your whole system. The proper use of Ozone through Renulife Health Generators will stimulate and reinvigorate a rundown vitality.

Description of Electrode Uses and Price List

	- T1		.00
	No. 2 Ral	ce Comb Electrode, especially for scalp	2,25
	No. 3 Met systemi	tal Electrode—Held tightly in hand for ic treatment—Nervousness, Anemia, etc.—	
		are or ecain by another person.	.00
= 1	THE RESERVE TO SERVE THE PARTY OF THE PARTY		.75
	No. 5 Inte	ernal Throat Insulated Electrode, partic-	2.00
	No. 6 Inte	ernal Throat Plain Electrode, particularly	.25
	N- 7 Dec	tal Insulated Electrode, designed for	2.00
		al Plain Electrode, also for rectal and	1.25
	N- O Var	inal Insulated Electrode	00
	M- 10 Van	inal Plain Electrode	25
	sional u	se oluv	2.00
	only		.25
	No. 14 Fuls	guration Electrode, for cauterizing and re- blemishes, scars, warts, etc	. 50
	No. 15 Spir	al Electrode, best for spinal treatments 1	1.75
	with lid	closed	1.25
	at the s	RILL CHILL.	2.00
	ductor	denser Electrode, made with metal con- within vacuum to concentrate current, pro- strong, even flow. Best for deep seated cases	
	in place	of No. 1	3.50

No. 19 Cataphoric Electrode, for professional use.	3 50
No. 21 Ear and Nasal Insulated Electrode, for in- ternal ear treatment for deafness; also for internal nose treatment.	
No. 22 Ear Special Insulated Electrode, best suited for internal ear treatments	2.25
No. 23 Ear and Nasal Plain Electrode, for internal treatment of nose and ear, for professional use	1 25
No. 24 Special Vaginal Electrode, made with perfora- tions, generating purifying ozone internally. Partic- ularly for inflammation.	72.5
No. 25 Ozone Generator, described on page 9	
No. 26 Renulife Tonic Saturator Electrode, specially designed for saturation treatment in place of No. 3 for tonic effects. Impossible to receive shock no matter if user is in contact with grounded object	
No. 27 Special Prostatic Electrode	
A Working Manual of High Frequency Comes	

A Working Manual of High Frequency Currents By Noble M. Eberhart, M. D., Ph.D., D. C. L.

Just what the name implies, a working handbook, telling how to use these currents. No lengthy discussions, no perplexing technicalities (no red tape), 324 pages, over 60 pages of illustrations. Handsomely bound. Price \$4.00; postage 10 cents.

High Frequency Liniment

This preparation is manufactured by the Renulile Electric Co., especially for use in connection with electric treatment. For rheumatism, neurolgia, neuritis and kindred ailments, it proves invaluable.

Per Bottle \$1.00

Pine Needle Oil for Ozone Generator

The Proper Use of Renulife Electrodes

Per Bottle

Highly skilled experts blow the vacuum glass electrodes in the Renulife Laboratories; each electrode must pass the rigid standards required of all Renulife products. The electrodes cannot be guaranteed against breakage inasmuch as they are made of glass but will last indefinitely if used properly.

The insulated Vacuum Electrodes are particularly recommended for internal treatment, because they are so constructed that the full strength of treatment is delivered at the tip only and not dispersed from points of contact nearest to the handle. In using internal electrodes always insert in the orifice of the body before turning on current at knob and turn current off before withdrawing electrode.

Renulife Ozone Generators

The Renulife Ozone Generators deliver Ozone in large quantities for inhalation purposes. The Ozone penetrates every cell in the lungs, purifying the blood, destroying disease germs and soothing the inflamed tissues. For Asthma, Catarrh, Hay Fever, Coughs, Colds, Bronchitis, Tuberculosis, etc., Ozone treatments are particularly Leneficial.

Our Ozone inhaler attachment No. 25 is designed to fit the handle of any Renulife Generator.

High Frequency Current conducted through this attachment creates Ozone in quantities, confines it and filters through Pine Needle Oil so that one may inhale it with maximum benefits.

Pine Needle Oil, a mixture of oil of Eucalyptus and oil of Pine Needles, has a soothing effect on the membranes and reduces oxides of nitrogen back to the original form of nitrogen and oxygen.

This glass Ozone Generator No. 25, fits handle of all Renulife models; furnishes \$9.50 Ozone for inhaling. Price.



RENULIFE HIGH FREQUENCY (Violet Ray) HEALTH GENERATORS

In the design and manufacture of Renulife High Frequency (Violet Ray) Health Generators the adaption of High Frequency Current for use in treating human ailments has reached its highest point. The several models as they are built to day represent many years of exhaustive scientific study by J. H. Eastman, President, in charge of laboratories and manufacturing.

Practically every part of the Renulife Health Generator is designed and built in the large modern Detroit Laboratories and factory. Even the glass electrodes are blown with painstaking exactness in the Renulife Laboratories. The materials used are of the highest quality and the skilled workers are under the closest supervision. Thus it is possible for us to guarantee Renulife High Frequency (Violet Ray) Health Generators against all mechanical or electrical defects.

Renulife High Frequency (Violet Ray) Health Generators operate from any electric light socket. No re-charging is necessary. They can be equipped to operate on current supplied by Home Electric Light Plants or Dry Cells.

The Renulife line of Health Generators is absolutely complete. From the smallest model the wattage ranges in strength to the largest model, offering the most complete line of High Frequency (Violet Ray) Generators for home use.

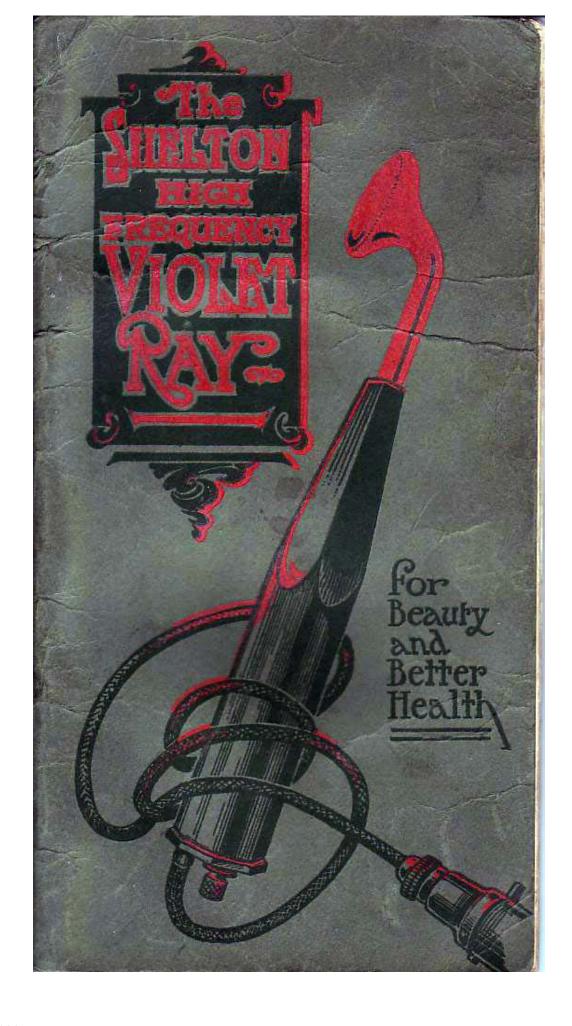


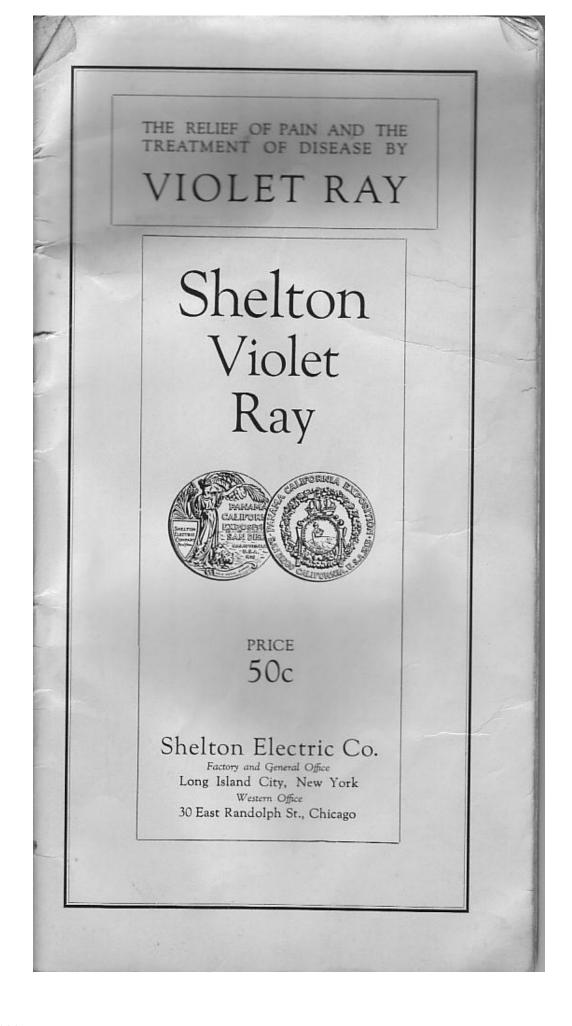


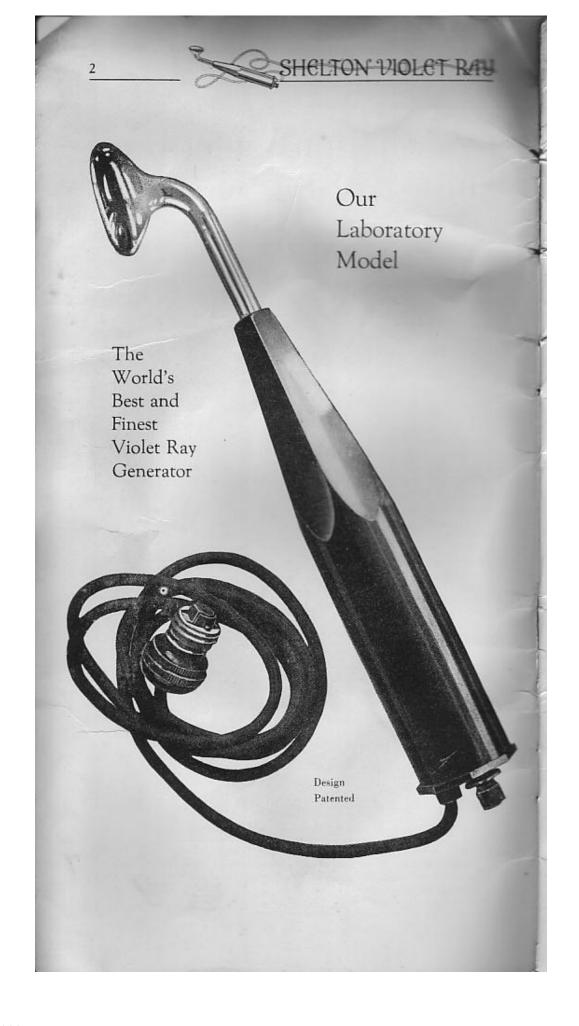
RENULIFE ELECTRIC COMPANY

4841-4853 Rivard Street DETROIT, MICHIGAN

Largest Exclusive Manufacturers of High Frequency (Violet Ray) Generators in the World



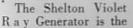


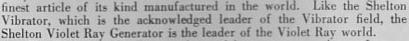




The Shelton Violet Ray High Frequency Generator

is the result of years of experience and experimentation on the part of the Shelton Laboratories. It is manufactured under the personal supervision of Mr. Gentry Shelton, President of the Shelton Electric Company Laboratories. Mr. Shelton is promi-nent in the electrical world as the inventor of the famous Shelton Vibrator and other well-known electric specialties. The Shelton Violet Ray Generator is as perfect as experience and work. manship can make it and is designed for both professional and home use. It is recommended, used and approved by the medical profession.





The Shelton Violet Ray can be used by anyone, anywhere. Its construction is simple; its design is appealing, its workmanship is of the best, and the results it gives are vouched for by thousands, who have benefited by its use.

In brief, the Shelton Violet Ray makes it possible for everyone to enjoy right at home the energizing, health-giving and pain-relieving powers of this wonderful ray.

THE SHELTON LABORATORIES

are located at Long Island City, New York. In these Laboratories a series of experiments is constantly being conducted with the idea of producing the best that bears the stamp of Shelton.



NEURITIS

Is an inflamed condition of the nerves. Any nerve can be affected. Pain and tenderness extend usually over the whole diseased nerve trunk. A mild current should be used at first and electrode kept in close contact with the body, moving it lightly. In some cases an increase of the pain may be noted at beginning. However, this state is soon overcome, then a more powerful spray can be applied.

Effects from Violet Ray treatments are systemic and not only local. Therefore all treatments have a fundamental action on health and benefit nerves and nerve endings.

What the Violet Ray Is

The Violet Ray High Frequency Current, or as it is more commonly called, the "Violet Ray," is a new phase of electricity. It is applied to any part of the human body without pain, muscular contraction or disagreeable sensation of any kind. The electrical oscillations representing the High Frequency Current follow each other with such tremendous rapidity that they outspeed our nervous sensibility; we do not become conscious of their presence; in other words: our nerves are insensitive to the electrical oscillations of the Violet Ray. The oscillations are so rapid that they exceed many hundred thousand repetitions per second. The Violet Rays are pleasing, and though most stimulating and highly invigorating to the entire system, nerves or muscles, cannot record the presence of their great

What Violet Rays Do

Violet Rays or High Frequency Currents benefit all living matter. Through the glass vacuum applicator light, heat, electric energy and ozone

are created. These forces are uniformly potent in relieving and eliminating human ailments. Violet Rays present a remedy upon which we can rely. They are positive and certain in action. They will reach where medicine does not, and often cannot—yet they cause no pain, no disagreeable sensation or discomfort. They furnish a soothing relief. They destroy germs and have a strong power over infection.

A Violet Ray treatment is the surest method of relieving pain. Applied to that part of the body where the pain is severest, the rays and High Frequency electrical discharge penetrate every cell, tissue and organ and tranquilize and soothe. They build up the forces of nutrition and general health. Violet Rays will stimulate and strengthen the vital organs, develop the body and steady the nerves, spraying thousands of volts of High-Frequency electricity into any weak, sluggish or painful organ or muscle, purifying and causing the flood of warm, rich blood to surge through the treated part, at the same time being painless and pleasant. Violet Rays have only to be tried to be appreciated.

Violet Rays for Well People, Too

Even if you are at present strong and well in every respect, the use of Violet Rays will be of immense benefit to you. They provide a stimulation to which a healthy body immediately responds. They safeguard you against the coming illness and reduction of vitality.



The Discovery of Violet Rays

You have no doubt often seen a fountain play and watched with pleasure the fine, soft mist which fell gently about it. This idea has been applied to electricity. Taking a strong, powerful electric current it is transformed into a soothing, invigorating spray which is not only absolutely harmless but exceedingly pleasant and beneficial to use.

This starting new invention at once replaced the old-time faradic current making which were used for medicinal purposes at the cost of some pain and muscular contraction on the part of the patient. The High Frequency Generator is an almost unbelievable advance in the development of electricity, for it accomplishes wonderful results without the slightest degree of shock or pain.

Astounding Phenomena Produced by Violet Rays

The Shelton Violet Ray High Frequency Current is applied in treatments through vacuum electrodes made of annealed glass. These electrodes, or applicators, diffuse the current in sprays of a beautiful deep red and violet color. Although the discharge from the glass applicator seems sometimes to be a single spark, it is in reality made up of numberless successive sparks which vibrate to and fro, or oscillate, as it is technically termed.

- Violet Ray High Frequency Current of the Shelton Generator is uni-polar. That is, the current is applied from one pole only. All other forms of electricity require a complete circuit between two poles.
- 2. Violet Rays traverse space in the form of ether waves, as in wireless telegraphy or telephony. An electrode will emit light at a distance of several feet from a charged person. You can readily see the violet colors reaching out and flowing into space.
- Violet Rays penetrate all substances, including the non-conductors of ordinary electricity. The High Frequency Current passes easily through



ANEMIA

Surface Electrode should be applied to the naked body over the chest, abdomen, back, and particularly up and down the entire spine. This will have a general stimulating effect through the increase of the oxygenation of the blood. In this way the oxygen-carrying powers of the red blood corpuscles are increased.



the glass electrode of the Violet Ray. It will even penetrate a piece of glass two inches or more in thickness.

4. Violet Rays have actinic action on tissues and in general; that means they exert a chemical activity, a fact which counts especially in the application in skin diseases and surface cancerous conditions.

5. Violet Rays generate enormous quantities of ozone. Ozone, which is a concentrated form of oxygen, is extremely beneficial to man. It is a

health-giving and body-building element.

6. Violet Rays are pleasant to use. Even the most sensitive persons enjoy them. They do not cause pain, muscular contraction or disagreeable sensations. The reason for this is that our sensory nervous system cannot respond to the marvelously fast oscillations of the Violet Ray High Frequency Current.

No Shocks—No Pain

Do not confuse Violet Rays with machines which shock the body. There is absolutely no pain or shock experienced in a Violet Ray treatment. It is a delightful, soothing sensation that you will enjoy to the utmost. Use Violet Rays frequently and you will see for yourself how pleasant and invigorating they are.

There is not the least danger connected with the use of the Shelton

Violet Ray instrument.

Why You Should Use Violet Rays

Shelton Violet Rays should be used by everyone experiencing sickness

or ailments of any kind.

The healing properties of Shelton Violet Rays are manifold, and they accomplish what drugs and medicines never can. The regular introduction of a vitalizing shower of diffused electricity into your system is exactly

what is needed to make it function properly and efficiently.

No matter how well you may be feeling today, tomorrow may bring sickness. But if you have been taking regular treatments with Violet Rays the chances that you will succumb to illness are very slight. Violet Ray

treatments keep your constitution at "par."

The healthiest people in the world are those who are always striving to better their physical conditions. And there is nothing like a Violet Ray treatment to infuse vitality and energy into your body.

To be healthy, use Violet Rays. To keep healthy, use Violet Rays.



KIDNEY TROUBLES

The kidneys perform a very important task in our body. They are the organs of excretion. If their function is somehow impaired by inflammation due to heavy cold or due to congestion or other causes, grave consequences are resultant.

Violet Rays exert a powerful influence. The very fact that albumen in the urine quickly disappears after a few applications alone proves sufficiently their importance in fighting this class of sickness, Nobody who suffers from kidney disorders can really afford to be without the Shelton Violet Ray. It helps when other means, especially drugs, have long been given up as useless.

SHELTON VIOLET RAY

Different Effects Obtainable

The treatments can exert different effects, according to their way of

the source body with the Violet Ray high frequency current. You can electrify yourself completely. You can calm painful sensations by educe treatments; besides sedative action is strongly constitutional in the tranquilize your nerves. Sedation can be produced locally by keeping the applicator in close contact with the part to be treated. Nervous troubles are quickly and most beneficially influenced by the sedative current. A general electrification treatment refreshes the entire nervous system.

Second—They can be stimulative. Stimulation is produced whenever an electrode is somewhat lifted during the application or used through

clothing or cloth.

This stimulation is caused by the many small sparks called the High Frequency Spray. They bombard the area which they cover, causing a tingling but pleasant sensation. They have a beneficial heating effect, too. Besides they generate ozone. Particles of this ozone are driven right into the tissues, causing the ozonization of the blood. Sparks are also germ-killing and have a great power over infection.

Stimulating treatments are best produced by application through

the clothing or through a towel which has been put over the part to be treated. As the length of the stimulating spray depends on the thickness of the interposed dry resistance, that is the clothing or towel, any desired effect is obtainable. Anything from a handkerchief to a doubled Turkish towel can be used for this purpose. The use of any kind of cloth insures a uniformity in spark length which cannot be obtained in any other way. Powdering the skin with talcum powder often suffices to create the desired dry resistance. This will at the same time allow an easy sliding of the applicator. A slight perspiration results from the treatment; this is natural. If the application of talcum powder is not desirable, use of lubricant is recommended.

Stimulating treatments through clothing find a profound use in rheumatism, lumbago, partial paralysis, etc. Slight stimulation is also sometimes desired in skin troubles where the blood circulation is impaired. A single layer of a handkerchief presents enough resistance in such a case. Chronic rheumatic troubles, however, may require the use of several layers or a Turkish towel.



GOITRE

By using the No. 5 Electrode, throat and neck may be treated with admirable results. Many physicians recommend this treatment for Goitre.

Many cases yield to treatment using Electrode No. 5 with the strongest current that can be tolerated. Treatments should be of not longer than four minutes' duration and not more than once a day. Results are not usually apparent until a dozen or more treatments have been taken.

For sore throats, also for improvement of the voice, the surface applicator can be used. Singers, actors and speakers have reported wonderful improvement and benefits.



Long sparks from the applicator will cause a counter irritation.

Counter irritation relieves wonderfully quick pains of many sorts.

It is often the very welcome means to kill the pain of a toothache. You will appreciate this pain-relieving quality of the Violet Ray also in sprains, strains, bruises, etc. Counter irritating applications are better, swifter, and more effective than plasters and liniments. In fact, they replace them entirely. Stimulating treatments are long lasting in their effects. They are not like drugs or a glass of wine, because they are not followed by a reaction. They do not create any habits.

Preparation for Treatment

Surface treatments can be given in direct contact with the skin, and also through the clothing. As any clothing represents an interposed dry resistance, a treatment through the same would cause small sparks. It depends entirely on the desired effect, which way to treat, and the instructions given in our booklet refer to the proper technique. If no sparks are desired any clothing covering the part to be treated must be removed.

Metallic objects as hairpins, corset steels, chains, should be taken off if they cannot be avoided in the treatment.



BACKACHE

Backache except in cases of strain or internal injury is a symptom of some internal disorder such as lumbago and rheumatism or weak sexual organs, bladder or kidneys. Local applications will relieve immediate pain but the cause should be located and treatment applied. Relief from the above ailments is usually obtained most quickly by local application on the affected area, using the surface Electrode with fairly strong current.

For tired, worn-out, rundown feeling, often accompanied by headache, nothing is more appropriate and relieving than Violet Ray treatments. They revitalize the system and re-establish the correct vital functions of the

For Mild Treatments

Keep the applicator in close contact with the body at any part which requires a mild treatment,

Start with the weakest current possible. Avoid the initial little discharge which occurs when you bring the applicator close to the body in making the contact. Make contact quickly and the initial discharge will not be annoying. Do the same when the treatment is finished. Remove the electrode quickly. This will save you the little sparks you may otherwise feel. By no means does this little spark, when making contact with the applicator and when removing it, hurt. If you think it does, it is imaginary. Just use common sense and a little judgment and you will find that even one-half inch of High Frequency discharge does not cause any pain.

To Relieve Pains Use the Following Technique

Always apply as much of a current strength as can be tolerated. If a person is very sensitive, keep the electrode in close contact with the painful spot and move it slowly about. If the sufferer from pain does not object to it, treat through cloth-

SHELTON VIOLET RAY

ing or a towel and cause a counter irritation by sparks. It depends largely on the part or area you treat what method should be employed. It is therefore necessary to adapt yourself to circumstances.

Many people, after stopping their treatments for many weeks, and even months, report continual increase in health and strength. As a matter of fact, the greatest benefit comes after the course of treatment is

over. This answers the question often asked as to whether the treatment does not have to be kept up indefinitely.

About Orificial Treatments

All orificial electrodes must be lubricated before insertion. They should be properly sterilized. It is wrong to believe that orificial treatments are painful. There is, in fact, no other sensation than that of a beneficial warmth during the application. Orificial treatments do not last over 5 minutes. It is also advisable to move the electrode during the treatment just slightly so as to avoid its sticking to the mucous membrane, Orificial treatments require, for safety's sake and for better results, always two people, patient and operator. Always turn the current on after insertion of the applicator and turn the current off before removing the same. Use metal electrode No. 6 in handle of machine and apply to electrode which is inserted in the orifice to save danger of breaking glass electrode in the parts. (See instructions for operation of instrument.)

Take Care of Glass Applicators

Cleanliness is of great importance. Inasmuch as the Violet Ray in itself is germicidal in character, all applicators should, nevertheless, be kept clean so that no infection can



FOR THE COMPLEXION

There is no more delightful or effective method of removing blemishes or wrinkles and other complexion disorders than by Violet Ray treatment. The blood is brought to the surface and the bloom of youth and health is restored to the cheeks.

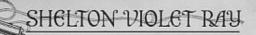
Skin-troubles, Acne, Pimples and Eczema respond quickly to Violet Rays. No beauty specialist is nowadays without a Violet Ray outfit.

WARTS AND MOLES

The proper treatment of warts is by using the Fulguration Electrode No. 20,

After each treatment a slight soreness and warmth is felt and in some cases, especially where the individual has red or light hair, a local irritation may set in. This is nothing to be alarmed about but such persons should allow three or four days between treatments. A large wart usually requires from four to six treatments of 35 to 45 seconds each and will dry up and drop off within ten to twelve days, the remaining mark gradually disappearing, within the next thirty or forty days, leaving no scar as a memory at the end of that time.

be spread wherever several people may use the same Violet Ray Instrument. The wiping off of the electrodes on a towel or just rinsing in water is not enough. Use warm water and soap at least to guard against troubles. Especially in cases of skin and scalp diseases be exceptionally careful. All glass electrodes stand heating and can be boiled in water. If you intend to use some antiseptic solution for immersing the electrode, be sure that the mixture is strong enough. Benetol, Lysol and other solutions are used especially with all orificial electrodes. Rinse these sterilized electrodes in warm water before using them.





Ozone Generator

This instrument when attached to our Generator produces enormous quantities of Ozone which is purified by passing through the inhalant mixture provided with this attachment. A few drops of the inhalant are poured on the cotton, and when the rubber bulb is agitated, the Ozone is forced through this mixture and inhaled in the form of a vapor.

When using the Ozone Generator, support the instrument on a table so that it will not roll and insert the Ozone Generator the same as any other electrode. One hand must be in contact with the glass stem of the

Ozone Generator as in the illustration.

The Ozone permeates every cell in the lungs, destroying any germ life and soothing the inflamed tissues. For Anemia, Hay Fever, Coughs, Catarrh, Asthma, Bronchitis, Insomnia, Nervous Debility and Tuberculosis of the Lungs, there is no better treatment.

The treatments are exceedingly agreeable and remind one of a trip

to the pine woods.

No. 28 Ozone Generator. Price, complete with all the attachments and 1-ounce bottle of inhalant. See page 24.... \$10.00

What the Shelton Ozone Treatment Will Do For You

If you lack physical exercise a good number of so-called functional troubles (of men and women of the sedentary class) will gradually make their appearance. These are clearly due to under-oxygenation, which means that an insufficient quantity of oxygen is absorbed by our system.

Muscular exercise, deep breathing, will increase oxygenation and do wonders to us—as is well known—but how often can the person needy of plenty of exercise, have same, especially when professional occupation and duties offer little chance for it? There are also a good many who may be invalid and should not exert themselves by physical strain. For all of these Shelton Ozone Treatments will do wonders.



The Shelton Ozone Generator converts the oxygen of the air into ozone. Ozone, therefore, is a modification of oxygen; in fact, it is concentrated oxygen. It has a strong chemical action. It is a colorless gas which has a peculiar, not unpleasant, odor.

Ozone exists in larger quantities on Mountain tops, at the Sea Shore and in the Country. In cities, and especially in crowded places, it is hardly recognizable. Oxygen is—as we all know—most vital to our welfare; in fact, without it we could not exist. When life is at its lowest ebb in grave cases of sickness the physicians resort to the oxygen tank to keep us breathing and alive. It is therefore not difficult to realize of what great importance ozone, which is concentrated oxygen, can be to us.

Not only have Shelton Ozone Treatments when taken regularly for the medication of nasal, throat, bronchial and lung affections a marked effect within a comparatively short time, but as a general tonic they are without equal. Smokers, for instance, also drug-addicts, report that they feel their cravings for nicotine or other drugs lessened when using the Shelton Ozone Treatment; in some cases complete cures have been accomplished by the constant use of Shelton Ozone and Violet Ray Treatments combined.

A few minutes of Shelton Ozone treatment every day can do the same for you as hours of outdoor exercise in crisp, invigorating country air. A healthy clear complexion with natural hues, sparkling bright eyes result and the general tonic effect the Ozone has on the entire system cannot be underestimated.

It produces an exhilaration which has no equal. Since Ozone is an intense oxidizer or germicide, it attacks organic substances, such as germs and bacteria. This oxidizing effect is in reality a process of burning, for substances burn because oxygen combines with some of their elements.

No heat, however, accompanies this oxidizing effect of Ozone; the Ozone particles combine with the organic substances when finely divided; no flame or heat is therefore produced.



Indirect Massage

High Frequency current produces a cellular massage, the contractile effect being expended upon the individual cells composing the tissue rather than on the individual muscles. This form of massage is very effective, penetrating as it does every part of the body, and can be drawn to any desired part by the application of another person's fingers to the part of the body to which treatment is particularly desired, the patient first grasping the electrode as shown in above illustration.

Our No. 6 Electrode is especially designed for this treatment.

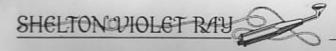
You can, however, use No. 1 with very good results; current not so strong, however. Where a very powerful treatment is wanted the metal Electrode No. 6 is used, but to avoid the sting turn the current on and off while the person treated has hand on the metal Electrode as illustrated.

Keep This in Mind

Do not be afraid of the Violet Ray High Frequency spray or discharge. It never harms. It causes no shock. Use Violet Rays freely

so you may familiarize yourself with their peculiar nature.

Violet Rays grow in their usefulness the more you study their action and effect. Make it clear to yourself what you wish to accomplish. If you want a soothing effect, don't apply a strong spray by holding applicator distant from the part to be treated; make a close contact instead with the bare skin. If you wish stimulation treat through the clothing with a current strong enough to reach your tissues. If you desire a tranquilizing effect to quiet the nervous system, do not use a current strong enough to cause irritation. If you actually want to destroy a wart or small growth, you must use an escharotic spark from a sharp point in order to obtain a cauterizing effect. Let these be the guiding principles to you and the result in the use of the Violet Rays will be surprising.



Effects Desired Easily Obtained

Careful study of different ways of administration should be made before using Violet Ray so as to secure best results.

For sedative or quieting results, your entire body can be thoroughly charged with Violet Ray High Frequency current. You can completely electrify yourself. Painful sensations by sedative treatments can be calmed, as sedative action is strongly constitutional in its effects. Nervous ailments are greatly benefited by sedative treatments. They franquilize your nerves. By keeping the electrode in close contact with part to be treated sedation can be produced locally. Sedative current creates quick and beneficial results in all nervous conditions. The entire nervous system is refreshed with a general electrification treatment.

Violet Ray can be stimulative. When an electrode is somewhat lifted during the application or used through clothing or cloth, a general stimulation is produced. This stimulation is caused by the many small sparks generally called High Frequency Spray. They cause a pleasant and tingling sensation and bombard thoroughly the area which they cover, causing a very beneficial heating effect at the same time. They also generate ozone which is directly driven into the tissue, causing the ozonization of the blood. These sparks are also germ-killing and overcome infection.

Follow Instructions Carefully

It is necessary to give strict attention to the following instructions to receive benefits—if same are followed, excellent results will positively be obtained.

ABSCESSES—Keep electrode No. 1 in close contact with the skin. Use enough current to get the full effect of the heat generated. Treatment of 7 to 10 minutes' duration and repeat daily or twice a day, if necessary. If applied to a developing abscess, its growth can be arrested.

ACNE (PIMPLES, BLACKHEADS)—A common and very distressing condition in young people, one in which quick and permanent relief may be obtained by the use of a short spark. Treat the entire surface for about six minutes, using electrode No. 1. Use electrode No. 20, creating a mild-fulguration spark where blackheads are deeply imbedded in the tissues, thus softening and permitting their easy removal. Steaming the face before treatment will be found beneficial. During period of treatments diet should be carefully regulated, avoid rich and greasy foods, and keep bowels in a healthy condition.

ALOPECIA (Loss of HAIR)—Commence treatment with weak current and increase to medium strength later, by using electrode No. 3. Pass comb electrode back and forth over scalp for about four minutes every day. Use same treatment for baldness due to sickness and for gray hair in order to restore it to natural condition. Electrodes No. 1 or No. 5 can be used if more convenient.

Alcoholism and Drug Addictions—Use surface electrode No. 1 in alcohol, morphine or opium habits, apply a strong current over liver, solar plexus and spine, for six to eight minutes daily. In cocaine habits use a mild current to the soles of the feet, arms and legs until reddening results. These applications should be made through interposed towel or clothing. Short sparks are best for these treatments. Never apply current through shoes.

Anemia and Chlorosis-Use electrode No. 1 for eight to ten minutes three to six times per week, treating thoroughly the entire chest,



abdomen, back and spine, thus increasing the oxygenation of the blood, which is as effective as iron tonics to the system. Ozone inhalations are helpful and of utmost value in these cases. Use Ozone Generator No. 28

ARTERIOSCLEROSIS AND HIGH BLOOD PRESSURE—Daily treatments of about 8 minutes' duration will lower blood pressure. As the blood approaches normal, reduce treatments to three a week, then to twice a week. A treatment every week or two should be maintained for some time to be sure of the permanency of results. Apply electrode No. 1 or No. 2, using a medium current strength over the body generally.

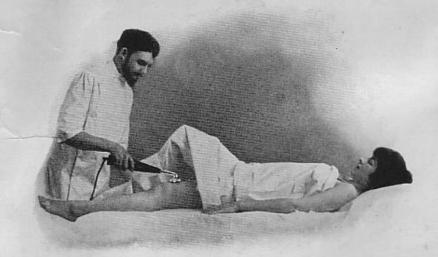
ASTHMA—In asthmatic conditions, the best results may be obtained through the use of the Ozone Generator, electrode No. 28. Choking and coughing fits will be promptly alleviated. A local auxiliary treatment may also be used for a sedative effect by a gentle massage over the area with the surface electrode No. 1 and mild current. Also apply electrode No. 5 to throat glands for about 6 minutes.

ATAXIA—Use a sharp spark along the spine, over buttocks, abdomen and to the back of the legs. Apply electrode No. 1 or No. 4. Daily treatments lasting about 10 minutes are necessary at first. They can be gradually decreased to about two a week with the progressing improvements.

Backache—To relieve pain treat sore muscles with electrode No. 1. As backache may be due to weakness of the bladder or sexual organs, lumbago, rheumatism, kidney disease, it is important to treat the cause as well.

BARBER'S ITCH (CYCOSIS)—Cleanse the infected area with warm water and castile soap, and a mild antiseptic wash. Then treat with mild current from the surface electrode No. 1 in close contact, followed by a short spark till counter-irritation is produced. The condition is usually stubborn and may require extended treatment.

BLADDER DISEASE (CYSTITIS)—The result of vacuum tube treatment through the rectum or urethra is remarkable in inflammation of the bladder. Treatment lasting 7 minutes given daily at first and then every other day, will clear up urine very fast in nearly all of these cases. Use electrodes No. 1 or 2.



RHEUMATISM

There is no surer antidote on earth for rheumatism than Violet Ray treatment. In some cases rheumatism disappears almost completely after a few treatments.

Banacarres—Short sparks applied with electrode No. 1 or No. 2 over the chest and back, until well reddened, will give relief. This treatment may be repeated every hour until a sufficient moderation of congestion is obtained. More important than the high frequency application is to coming the air by means of electrode No. 28.

the back of the bend and nock with a spark just strong enough to have a rook water land cases, 2 or 3 minutes' inhalation of ozone terror (No. 23) is desirable.

DEVELOPMENT—Treat the entire area to be developed. Use electrode No. 1 for about 5 to 8 minutes daily. Move it lightly over each side, from the neck downward and also from arm pit to arm pit, under each breast, pressing lightly upward.

Bright's Disease—Apply strong current with electrode No. 1 over the region of the kidneys for at least 10 minutes every day.

Bruises—Treat injured area with electrode No. 1. First with close contact and later with gradually increasing spark. Use lubricant.

Bunions—Electrode No. 18 or No. 51, using a fairly strong current, should be applied directly over the inflamed area followed by a gentle spark.

Callouses—On calloused areas of foot a mild fulguration spark obtained from electrode No. 20 will soften the hardened tissues so they can be readily removed. If soreness follows, treatment over the area with the surface electrode No. 1 in direct contact with the skin will afford relief.

CANCER—Mild forms of cancer are treated with a strong spark. Use electrode No. 20. Consult authority, as surgery is usually required in conjunction.

CANKER—A medium current for 1 or 2 minutes should be applied with electrode No. 10 or No. 58, or any suitable dental electrode.

Carbuncles—Use electrode No. 1 in loose contact with the inflamed area and pass it back and forth over it for 10 to 15 minutes. This will relieve pain and promote an early ripening of the carbuncle. Electrode No. 18 is also very convenient.

CATARRHAL CONDITIONS—In catarrh of the nose and throat the ozone generator No. 28 is of great value and should be used two or three times daily for about 5 minutes at a time, followed by treatment in the nostrils with the nasal electrode No. 16 or 52 with mild current for about 3 minutes. Care should be used that the current is not turned on until after insertion of the electrode.

CATARACT—Five minutes daily treatments with electrode No. 18 in contact with closed eyelids, with not too great an intensity of current.

Chafe—Use vaseline, followed by a medium current with electrode No. 1 for 5 to 6 minutes in close contact with skin.

Chapped Hands or Face—Apply vaseline first. Then use a weak current with No. 1 electrode for 2 minutes in contact with skin.

Chilblains—Use electrode No. 1 for 6 to 8 minutes in contact with the skin. It may be held steadily over the chilblain or moved slowly about as desired. Repeat daily or every other day until cured.

COLD HANDS OR FEET—Improper circulation in the extremities may be relieved by a gentle spark over their surface, gradually increasing until a sense of warmth prevails. Use electrode No. 2. Repeat often; if necessary, three times a day.

Cold in the head will be benefited by inhalation from ozone generator (electrode No. 28), followed by mild current through nasal electrode No. 52. The surface electrode No. 1 may also be used over the antrum, mastoid region, and back of neck.

SHELTON VIOLET RAY

COLD IN LUNGS—Treat the chest and back. Follow instructions given under Asthma. Take ozone inhalations repeatedly for several minutes. Electrode No. 28.

Constipation—Relief will be obtained by a thorough downward massage over the abdominal region with surface electrode No. 1 applied first directly to the skin and followed by short spark over the same area. Ten minutes daily is advised first, later dropping to two or three times a week. If the constipation is particularly stubborn, peristaltic action will be stimulated by means of the insertion of an insulated rectal elec-



FOR THE EAR

Earache, deafness and other disorders of the auditory organs yield readily to the Violet Ray. In some cases, hearing has been restored completely.

Use Electrode No. 10, inserting it into the ear, using a mild current for a short length of time. Where the pain is acute it is sometimes necessary to take hourly applications. If heating effect is too marked during treatment interrupt the application and repeat later.

When inflammation exists treat about the ear with No. 1 Electrode from 5 to 8 minutes with mild current.

trode (Nos. 14, 34, 36 or 63), properly lubricated, for a period of 4 to 6 minutes. Apply current after insertion.

Corns — Hard corns may be entirely removed by the application of the fulguration electrode Nos. 18 or 51, care being used to apply the spark particularly upon the hard tissue and not on the surrounding area.

DANDRUFF—Shampoo the scalp before treatment, dry it thoroughly and apply a medium current, with applicator No. 3, using it in the same manner as an ordinary comb for 3 to 5 minutes. Repeat this treatment at intervals of 2 to 3 days. Do not use any hair tonic.

Do not use any hair tonic.

DEAFNESS—Unless the drum of the ear is ruptured, chronic deafness may generally be relieved and in many cases entirely cured by high frequency treatment. Ear electrode No. 10 should be used for about 4 minutes. The gentle stimula-tion thus afforded the delicate aural nerves and the mild massage of the drum will often result in an immediate improvement in hearing. As a further treatment the surface electrode may be applied over the mastoid region for 4 or 5 minutes with a gentle, mild current.

DIABETES—Apply electrodes Nos. 1 and 2 over the abdomen, and if proper diet is observed, results will be quickly obtained. Apply a strong current for about 8 minutes through a thin towel twice a day.

DIPHTHERIA—Apply electrodes Nos. 10 and 58 to inside and outside of throat respectively. Ozone inhalations have proven most beneficial (Ozone Generator No. 28).

Dyspepsia—Apply surface electrode No. 1 over stomach and solar plexus. The general tonic effect of ozone inhalations makes it a useful adjunct.

EARACHE—Relief obtained by application of ear electrode No. 10, using a mild current for 3 to 7 minutes. Applications to the back of the ear and over the side of the face covering facial nerve with electrode No. 1 assist treatment greatly.

ECZEMA—A handkerchief laid over the surface will cause a slight spark and is preferable. If the skin itches hold the electrode slightly Nos. 1 or 18. Use electrode

Err Descases - Iritis, retinitis, atrophy of optic nerve, conjunctivitis, retinitis, atrophy of optic nerve, conjunctivitis, retinitis, grants are proposed and apply a mild current with electrode No. 18 or 39 for that periods, not exceeding 3 minutes at one time.

Figures Treat with No. 1 electrode and a mild current in close

They should be lubricated before insertion. Turn the current on after insertion of electrode and turn the current off before removing to avoid unnecessary sparking. A medium current for 5 minutes is applied. Repeat treatment as circumstances require. During menstruation an excessive flow of blood may result, as high frequency currents draw the blood.

FISTULAS — Use electrode Nos. 14, 36 or 63, as indicated. Lubricate electrode before insertion into rectum. Use a medium current for about 5 minutes daily.

Flabby Breast—A stimulating application with the surface electrode to the relaxed nipple of the flabby breast will immediately show its beneficial effect.

FRECKLES—Several weeks' treatment will be required. Use electrode No. 1 with a medium current daily from 4 to 6 minutes,

FROST BITES—Treat affected part with No. 1 electrode, using a mild current for from 5 to 7 minutes.

FURUNCULOSIS—Treat with No. 1 electrode with mild or medium current. Inflammation will cease quickly.

Goithe—The absorption of tissue being necessary, treat with external throat electrode No. 5 in close contact with the skin and follow with moderately sharp spark over the surface and sides of the protuberance. Persistence in this treatment is necessary.

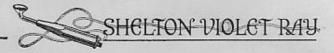
Gour—This condition may be helped by a continued massage over the area with a surface electrode and a mild current. If pain is felt at first begin with short treatment and increase. Do not treat during acute attack.

Gray Hair.—The natural color of hair can often be restored by patient treatments with electrode No. 3. See under Alopecia. Sometimes several months are required for results. Keep the scalp clean. Use a



SCALP TREATMENT

Nothing is more beneficial to the scalp than the application of the Shelton Violet Ray. It revitalizes impoverished hair, restores its natural lustre. In order to obtain results it is necessary to be both persistent and consistent in the use of Violet Ray, as treatments must sometimes continue over a long period of time in obstinate cases. Treatments should be from 3 to 5 minutes a day using the comb Electrode. Do not use hair tonic that contains alcohol, as this is inflammable. Falling hair can be stopped in time by Violet Ray scalp applications. Prematurely gray hair can be restored to its natural color by persistent applications. Dandruff and other scalp troubles are usually quickly relieved.



current of sufficient strength for good stimulation once or twice every day.

GRIPPE (INFLUENZA)—Treat spine, solar plexus, over eyes and sides of nose. Inhalations from Ozone Generator (No. 28) will greatly aid. Intra-nasal applications by electrode No. 52 are also beneficial.

HAY FEVER—Apply electrode No. 1 over the nose and the spine and No. 28 in nostrils. Anticipate the trouble and begin before discomfort is felt.

Headaches—Headaches are from varying causes. If relief is not had from applying to the seat of pain, cover the spine and stomach. Apply No. 1 electrode.

HIVES AND RASH—Use electrode No. 1 with medium current strength to affected area. Use vaseline before applying the electrode; 3 to 5

minutes should be sufficient. Repeat daily.

Hemorrhoids (Piles)—Use hemorrhoidal electrode No. 63 with mild current for about 4 to 6 minutes, care being observed that the electrode is properly lubricated and that current is not turned on until after insertion.

INSOMNIA—Cover back of head, neck and eyebrows in order mentioned. Use electrode No. 1; a strong current is essential in treating this ailment.

LEUCORRHEA—Follow the directions given under female troubles. Also use electrode No. 4, moving it up and down the spine slowly. A strong current must be used for about 5 to 6 minutes daily.

Lumbaco—Treat over painful area until all pain is dispelled.

Use electrode No. 1 and as strong a current as can be tolerated. Repeat

treatment whenever pain reappears until cured.

Massage—Metal electrode No. 6 to be held by patient in one hand, turning on current after it has been grasped. Masseur's fingers will draw sparks to point massaged. Use lubricant while massaging.

Mumps—Treat the swollen parts with a medium current, using electrode No. 1, keeping it in contact for about 5 to 8 minutes. Repeat

as necessary, at least once a day.

Nervousness—Treat the spine, back of head and neck with a mild current, using electrodes Nos. 1 and 4. Immediate results are felt in all cases. Use a weak current at first and increase the strength gradually; 5 to 8 minutes is the average duration of treatment.

Neuralcia—Apply to seat of pain, after applying lubricant, raising electrode occasionally to produce spark. Treat with No. 1 electrode;

time of treatment 5 to 10 minutes.

Neuritis—The first few treatments usually increase the pain, after which relief is felt, and the current may be increased and a short spark given. Apply at the seat of pain with surface electrode No. 1.

OBESITY—Use electrode No. 1 and apply to affected parts consistently. Begin with a medium current and increase to full power. Rigorous diet, exercise and personal hygiene must, of course, be observed.

PAINS—Apply at seat of pain until relieved with current and method to give best results. Use electrode No. 1.

Paralysis—With electrodes No. 1 or 2 treat paralyzed muscles, employing a current strong enough to produce a half or three-quarter inch spark. Part of the time keep the applicator in contact with the skin and part of the time raise it above the surface to get effective spark.

Poison Ivy—Apply lubricant first. Use No. 1 electrode or No. 2 edgewise so as to cause plenty of sparking over the whole affected area. Lift the applicator here and there and treat with a strong current for from 3 to 5 minutes.

PROSTATIC DISEASES—This most distressing ailment, common to so many men of middle age, is one in which the high frequency current is almost a specific. The treatment indicated is with the prostatic electrode No. 9.

PYORRHEA-Treatments with suitable dental electrode with a weak

or medium current will help to re-establish a healthy condition of the gums. High frequency treatments promote proper nutritional improvements and in addition to this have antiseptic and antitoxic properties. A dentist should always be consulted.

RED NOSE-Use electrode No. 1 and apply for short periods, say about 2 minutes, small sparks by holding the electrode edgeways or lifting it about one-eighth of an inch. The object is to destroy the enlarged veins and treatment must not be carried too far at one time. It should be repeated as condition permits. Several days between treat-

ments may sometimes be advisable.

RHEUMATISM-High frequency currents are of exceptional value in muscular and in chronic articular rheumatism. The pain will be relieved by application of surface electrode No. 1 with massage, using lubricant, if necessary. Follow with fairly strong spark until pronounced redness is produced. This treatment persistently followed has in many cases resulted in a permanent cure. While relief may be obtained in one treatment, a permanent cure may require much time and patience.

RINGWORM-Use electrode No. 1 and apply short sparks for several minutes two or three times every other day. A medium current is sufficient. Move the electrode so as to cover the entire affected area.

Scars-If the tissue is hardened or callous its removal may be facilitated by the application of a mild spark through electrode No. 20.

SCIATICA—Treat with a sharp spark along the course of the sciatic nerve until a redness is produced. Use electrode No. 1 or No. 2.

Skin Diseases—Treat over the affected tissues with surface electrode No. 1 held in close contact for from 5 to 15 minutes. Follow by moderate spark 3 to 5 minutes. Treat once daily. If the skin is moist, talcum powder should be used so that electrode will not stick. See also Acne and Eczema.

Sore Feet and Stone Bruises-Applications with any suitable applicator in close contact with the skin bring quick relief. Use lubricant

and treat for several minutes.

Sore Throat (Tonsillitis)—Electrode No. 5 is best suited for external throat applications. Hold directly against the skin with fairly strong current. The use of the Ozone Generator No. 28 for several minutes following will also be beneficial.

Sprains—The pain and soreness following a sprain may be alleviated by treatment, first with the surface electrode in contact with the skin and later by a mild spark, gradually increasing in strength until a hyperemia is produced.

STIFFNESS OF JOINTS AND MUSCLES-This condition is generally due to the over-employment of certain muscles. The resulting stiffness and soreness may be relieved by the use of surface electrode No. 1.

Ulcers-Apply a strong current with No. 2 electrode for 5 minutes in contact, lifting applicator once in a while to produce sparks of at

least one-quarter inch. Repeat daily.

Warts and Moles-These disfigurements, no matter of how long standing, may be most successfully treated by the application of a spark through the fulguration electrode No. 20. The greatest care must be exercised that these sparks do not come in contact with the surrounding tissues. Permanent results may be expected, and the most disfiguring warts or moles removed without leaving a trace by these means.

Whooping Couch-Apply No. 1 electrode in the same manner as explained under Asthma and use also Ozone Inhalations with the Ozone

Generator No. 28.

WRITER'S CRAMP-Treat with gentle spark over the affected fingers I thumb, also massage with surface electrode over palm of the hand. WRINKLES-Are commonly caused by using a given set of facial seeles more than normally. They can be removed by applying elec-No. 1 or No. 18 with a rotary, massaging movement. High frequency earrent revitalizes tired muscles and arrests the blighting marks of time.



Guarantee

On all our instruments the name Shelton Electric Company appears. All Shelton goods are guaranteed fully for one year from the date of purchase against mechanical or electrical imperfection.

Directions for Operation

- 1-Insert the Glass Applicator into the handle of machine.
- 2-Attach the plug to the lamp socket.
- 3—Turn the current on: first, electric light switch; second, knob switch on machine.
- 4—Turn the adjusting knob switch to the right or left also to increase or to diminish the Violet Ray discharge. Also give extra turn when finished to insure electric current is broken.
- 5—In orificial treatments, the electrode should be first inserted into the orifice without inserting it in the instrument. Then place Electrode No. 6 in the instrument. Hold this metal electrode against the metal cap of the electrode the current carries. This simple method will prevent the electrode from moving while inserted. Use lubricant on all orificial electrodes. (For physicians.)
- 6—In the indirect treatment, the party to be treated should hold the instrument, with the metal Electrode No. 6 attached in hand. The current should then be turned on and some second party, with either hand, fingertips or another applicator, draw the current to the desired spot of the patient's body. This method can be used for body massage, facial massage and scalp treatment. No. 1 Applicator may be used in place of No. 6, although it is not so strong, and desired results not so easily obtained.
- 7—Do not attempt to repair instrument, if the necessity arises, but write to the factory, advising of your difficulties and we will inform you what to do.
- 8—Do not use our instrument in connection with any tonic containing alcohol on the hair.
- 9—Any treatment should be started with a mild current and gradually increased to the required strength.
- 10—When a treatment is completed, do not forget to turn off the current at the switch, or to be on the safe side, remove plug from the electric light socket. Damage arising from carelessness is not covered in our guarantee.
- 11—The standard winding for this instrument is 110 Volts. If voltage is higher or lower than 15 per cent, special windings or series resistances must be used to obtain the best results. We will supply all necessary information upon request.
- 12—Take care of the connecting cords. They should be kept dry and free from knots and twists and must be repaired when signs of wear are apparent.
- 13—Should you break the glass Electrode off in the machine accidentally, simply take a pair of long-nose plyers and pull out the broken part.

High Frequency Currents in Modern Practice

The modern physician no longer questions the value of High Frequency Currents. The quick and lasting results obtained by the use of High Frequency Currents where other measures have repeatedly proven futile, have given the Medical Profession a true perception of their value.

What High Frequency Is

All electrical currents exceeding 10,000 oscillations per second are termed "High Frequency Currents." There are two major phases of High Frequency, "HIGH" High Frequency, where the oscillations run into the hundred thousands per second and "LOW" High Frequency, generating between 10,000 and 20,000 oscillations per second. There are also the intermediate phases between the two major modalities.

Source of "HIGH" High Frequency

"HIGH" High Frequency is generated by an arrangement of Induction Coils and High Tension Transformers in connection with Condensers and Tesla Coils or Oudin Resonators. This arrangement employs initial high charging voltages, condensers and spark gaps, and is capable of generating waves that repeat themselves periodically and harmoniously.

The Application of "HIGH" High Frequency

"HIGH" High Frequency obtained from the sources mentioned above appears very smooth, and contractions of muscles or reaction at nerve centers is practically nil. This phase is excellent for fulguration work to remove moles, warts and cancerous growth by the dessication process. It is also good for skin treatment, especially where the chemical action of the effleuve, caused by the thousands of tiny sparks during surface treatment, is desired.

This effleuve is rich in ultra-violet radiations, and as such, together with the nascent ozone created by it, is chemically active and decidedly germicidal. It has been determined that "HIGH" High Frequency is best suited for treatment of superficial conditions, local septic processes and also for the mucous cavities.

Source of "LOW" High Frequency

The Old Style Static Machine

The old-style Static Machine while considered practically a relic of the past, is by no means of little value from the viewpoint of therapeutic qualities. It must be remembered that the different sources of High Frequency produce entirely different physical effects. The "LOW" High Frequency Currents generated by the Static Machine have certain qualities which the other sources cannot produce.



Effect of "LOW" High Frequency

The characteristics of "LOW" High Frequency are especially the vibratory effects upon cells—(Cellular Massage)—and the involuntary slight muscular contractions, induced by wave distortions or wave super-imposition. "LOW" High Frequency Currents from the Static Machine have been found to be most effective in producing marked local sedation, elimination of waste and disengorgement of congested tissue. Moreover, where inflammatory conditions are present, they bring relief by inducing circulatory drainage and accelerating local metabolism.

The New Creation

The Instrument for the production of both "HIGH" and "LOW" High Frequency.

While numerous machines have been offered to the Medical Profession for the production of either "HIGH" or "LOW" Frequency Currents, it remained for the engineers of The Shelton Laboratories, after much experimentation and consultation with prominent specialists, stretching over a period of years, to successfully reproduce both the "HIGH" and the "LOW" High Frequency by one and the same instrument.

Simply by turning a knob, either of the two modalities, as well as the intermediate phases may be had on the new Shelton Violet Ray Instrument.

Construction of the Shelton Violet Ray Instrument

The various phases of High Frequency Currents in The Shelton Violet Ray Instrument are generated by successive kick-backs created by highly inductive windings and a special mechanical interrupting device. Their potential is controlled by a new and ingenious inductance provided with a graduated dial which permits a gradual and correct dosing.

Summary

Space does not permit us here to refer to the wide scope of High Frequency in general. Many books have been written on this subject by prominent Specialists. However, it is universally agreed that Nature has provided no other factor so omnipotent as the Violet Ray for relief—giving light, heat, electricity, ozone and massage (muscular contraction), simultaneously. Physicians who are inclined to believe that some of the statements of the accomplishments of High Frequency are exaggerated are invited to try the Shelton Violet Ray Instrument at our risk for thirty days, and if not satisfied at the end of that time, they may return the apparatus and receive full credit.

Shelton Red Ray (Neon) High Frequency Electrodes



the original and Price genuine. \$3.00

The Shelton Red Ray is produced by the High Frequency discharge through the inert gas called Neon. Neon exists in the air and was discovered by Professor Ramsay many years ago. It is extremely rare; in 150,000 cubic feet of air only one cubic foot of Neon may be found. The filtering and freezing processes employed to obtain Neon are troublesome and expensive, therefore the commercial price of Neon itself is high, one cubic foot at less than atmospheric pressure costing over \$30.00. Neon has two vivid characteristics especially interesting

to electrical science. One is its great conductivity, 136 times greater than air at the same pressure, the other is its intense orange-red luminosity when ionized by electrical currents. Poth factors have made Neon not only interesting to modern electricity but also very practicable and important for certain

In connection with High Frequency Electrodes, Neon filling has at least three distinct advantages. First, lasting quality of electrode as far as life of the vacuum is concerned. The Neon, being an inert gas, has the tendency not to undergo chemical changes under the influence of the high tension discharge, even when continuously used. Its life as far as the gas contents is concerned is therefore almost indefinite. The vacuum of a Neon electrode will not become high. Other electrodes using reduced atmosphere as means of conductivity cannot help but change their vacuum gradually as is well known to users of High Frequency apparatus. Second, since its conductivity is high, it makes for greater efficiency. means, Neon electrodes will deliver a greater volume of electricity to the part being treated under otherwise equal con-

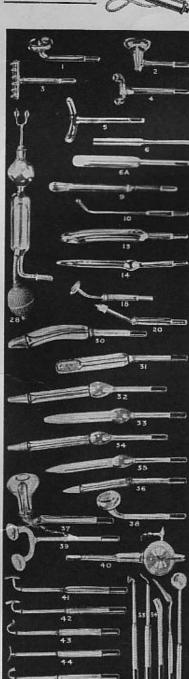
ditions. The discharge also is of a more diffused character and appears pleasant so that heavy currents can be delivered without unpleasant sensation. Third, the therapeutic value of the Neon ray. The Neon Red Ray stands in direct opposition to the Ultra-Violet Ray. The Ultra-Violet Ray being, according to Finsen, positive; the red light negative. This opinion, now accepted by modern medicine, rests largely upon the fact that for instance in cases of smallpoxyblue rays will cause pus-formation while red rays have just the opposite effect and tend to dispel pus-formation. It is also well known that in cases of measles and scarlet fever, red light can be applied with good success as a remedy. Dr. A. Meyer (Strahlentherapie Bd. 1) uses red light in cases of ulcus cruris and recommends its use. Erysipelas can successfully be treated by red light according to Dr. O. Mueller. (M.M.W. 1917 Nr. 11).

Since Violet and Ultra-Violet Rays and Red Rays are antagonistic, it is quite natural to assume that one may equalize the action of the other. This is in fact so. A sunburn, caused as we know, by the Ultra-Violet Rays of the Sun, will yield to the

- 1. Neon Red Ray is indicated in all inflammatory conditions of the skin.
- 2. It has a most soothing effect in cases of skin irritation.
- 3. It will dry up acute eruptions. (Acne, etc.)
- 4. It will heal pustalæ without leaving scars.
- 5. Freckles, tanning, skin discolorations yield usually quickly.

Copyrighted by Shelton Laboratorics, B. F. JANCKE, New York.

See foot of opposite page for prices on all Neon Electrodes



General High Frequency Electrodes

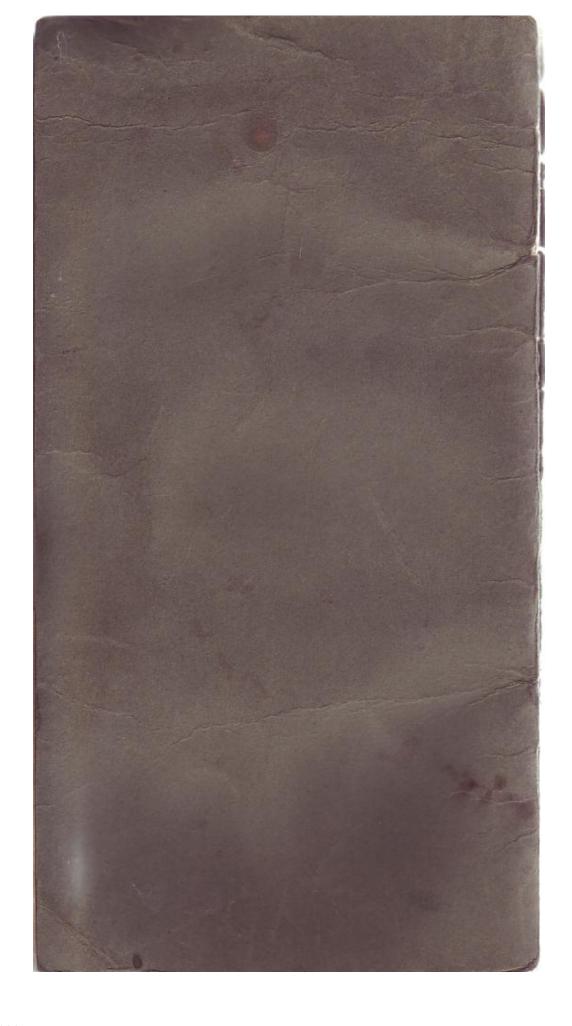
Made from the best annealed im-ported glass. Do not confuse the Shelton Electrodes with Electrodes made from plain glass

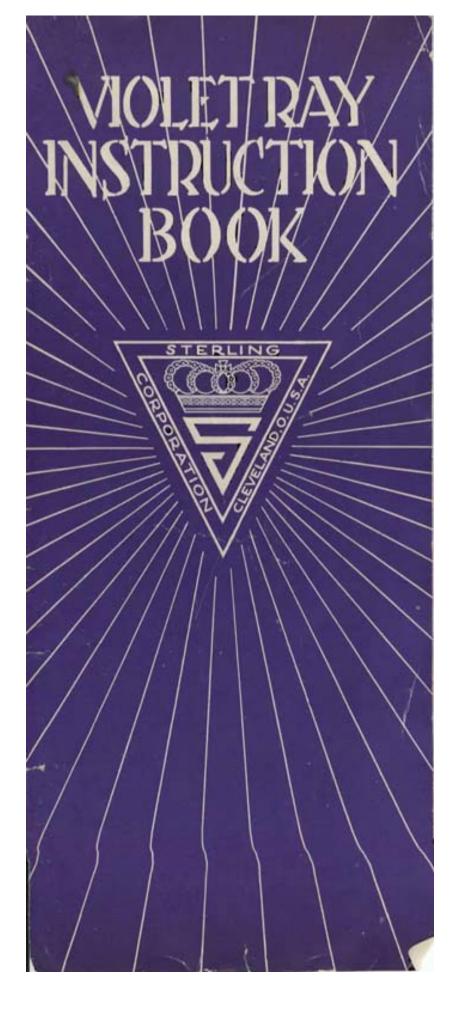
VIOLET RAY

	TODEL MAI
No.	1—General Surface for Head, Face or Body \$1.00 2—Large Condenser Electrode, de- livers strong current. For Rheu- matism, Lumbago, etc. \$3.00 3—Large Comb, Scaip or Body \$2.00 4—Spinal Electrode \$1.50 5—External Throat, Arms, Limbs \$1.00 6—Metal Handle used for giving
**	or Body\$1.00
No.	2-Large Condenser Electrode, de-
	livers strong current. For Rheu-
No.	large Comb etc\$3.00
No.	4-Spinal Electrode
No.	5-External Throat, Arms Lumbs, \$1.00
No.	6-Metal Handle used for giving
	Indirect treatment\$1.25
No.	9-Insulated Prostatic Electrode \$2,00
No.	10-Ear or Internal Throat\$1.00
No.	13—Plain Vaginai
No.	18—Eve Fleetrode also for Corne
No.	20—Fulguration Electrode for re-
	moval of Warts, Moles, Diseased
**	Spinal Electrode \$1.50 - External Throat, Arms, Limbs \$1.00 - Metal Handle used for giving Indirect treatment \$1.25 - Insulated Prostatic Electrode, \$2.00 10 - Ear or Internal Throat \$1.00 13 - Plain Vaginal \$1.00 14 - Plain Rectal, small diameter \$1.00 15 - Evilonia Vaginal \$1.00 20 - Fulguration Electrode for removal of Warts, Moles, Diseased Growths, etc. \$2.00 28 - Ozone Generator, with 1 oz. bottle of inhalant, Nose and Mouth piece, and Bulb \$1.00 30 - Insulated Vaginal Electrode, large diameter \$2.00 31 - Insulated Vaginal Electrode, generates ozone in Vagina \$3.00 32 - Insulated Rectal, large diameter \$1.00 33 - Plain Rectal, large diameter \$1.00 34 - Insulated Rectal, med. diameter \$2.00 35 - Insulated Rectal, med. diameter \$2.00 36 - Insulated Rectal, med. diameter \$1.00 37 - Large Kataphoric (Cocaine) Electrode—Medicated cotton inserted and High Frequency applied through medicated cotton are driven
No.	28-Ozone Generator, with 1 oz.
	bottle of inhalant, Nose and
No	30 Insulated Version Florida \$10.00
-101	diameter e2 00
No.	31-Insulated Vaginal Electrode, pen-
	erates ozone in Vagina\$3.00
No.	32-Insulated Rectal, large diam \$2,00
No.	33-Plain Rectal, large diameter \$1.00
No.	4-Insulated Rectal, med. diameter \$2.00
No.	35-Plain Rectal, medium diameter. \$1.00
No.	37—Large Katanhoric (Cocaina) Flag
4101	trode-Medicated cotton inserted
	and High Frequency applied
	through medicated contents. Par-
	ticles of medicament are driven
	into tissue by molecular bombard-
No	B-Hollow Surface shaped generates
	Ozone within cavity and firs
	nicely over certain parts as cheek-
	bones\$1,25
No.	9-Double Eye Electrode\$1.50
No.	Actinic Ray Electrode for Acne
	Develors sufficient X.Pay to
	cause actinic or Chemical Ray
	trode—Medicated cotton inserted and High Frequency applied through medicated contents. Particles of medicament are driven into tissue by molecular bombardines of medicament are driven ment. Effect is purely local. \$4.00 and the state of ment and the state of ment and the state of ment and the state of t
No.	1-Dental Electrode for Gum treat-
	ment, right side of Jaw\$2.00
140.	ment left side of law car
No.	3-Dental Electrode for Gum treat-
	ment, inside of Jaw\$2.00
No.	4-Dental Electrode for front Gum
	treatment\$2.00
No.	5-Dental Electrode inside Jaw\$2.00
140.	14-Dental Electrode for front Gum treatment
No.	7—Dental Kataphorie (Cocaine)
*****	Electrode\$2.00
No.	8-Dental Electrode for Gum\$2,00
No.	9-Dental Abscess Electrode\$2.00
No.	0-Dental Electrode Ball shaped \$2.00
NO.	2 Plain March Florings #1.00
No.	3—Dental Electrode hollow hulb. \$1.75
No.	4—Evelid Electrode\$2.00
No.	5-Small Kataphoric (Cocaine) Elec-
	trode. See No. 37\$2.00
No.	b—Insulated Ear Electrode\$2.00
No.	R. Insulated Spattitum of Longue\$2.00
No.	9—Insulated Urethral Flactrode \$2.00
No.	0-Plain Urethral\$1.00
No.	1-Insulated Nasal Electrode\$2.00
No.	
No.	i3Hemorrhoidal\$1.00
M	ON ELECTRONE PRICES
14	EON ELECTRODE PRICES
	Welst Day Pleatender on listed

All regular Violet Ray Electrodes as listed above at \$1.00 each can be supplied in Neon at \$3.00 each.

All regular Violet Ray Electrodes as listed above at \$1.75 and \$2.00 each can be supplied in Neon at \$4.00 each.





STERLING VIOLET RAY INSTRUCTION BOOK

Complete with

Charts, Diagrams and Directions for the Treatment of all Ailments Amenable to the Sterling Violet Ray Generators



Compiled by

The Originator and Inventor of the Solid Coil Sparkless Type High Frequency Generator



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ALL HIGHTS RESERVED

CLARENCE E. EDSON & ASSOCIATES Concessionaires Sterling Electrical Specialties

ORIGINAL AND IMPROVED DESIGNS IN ELECTRICAL CREATIONS FOR THE PROFESSION AND HOME

MADE SPECIAL

EQUIPMENTS 1276 WEST, 3RD ST. FOR HOSPITALS CLEVELAND, O. AND LABORATORIES U. S. A.

AGENCIES AMERICAN AND FOREIGN CITIES

INTRODUCTION

N offering you the practical benefits of the Violet Ray we would suggest that you do not expect too much. With any form of treatment patience and persistence are necessary. experience you will learn and become more and more competent in the application of the Violet Ray.

Its efficiency may often be greatly increased by a trained operator or qualified physician.

Sometimes cases are serious enough to warrant consulting a physician and applying the treatment under his directions. Your family doctor should know the senefits and value in the Violet Ray and help you realize them.

The specific treatments for some diseases are not given in this book although favorable reports have been made on them as we prefer to err on the side of conservatism than be carried away by our enthusiasm.

Persist—study your case. Is your diet and living proper? Never give up.
In the correct use of the Sterling Violet Ray there is absolutely no danger—no more than from a mild sun bath on a beautiful summer day.

OPERATING INSTRUCTIONS-TYPE "A"

The operation of Sterling Violet Ray Generators is

very simple and easy to understand. So far we feel safe to state that Sterling Generators are the most simple, strongest, lightest and best con-

Sterling Generators can be operated by any one and with the assurance that they are absolutely safe. The current may be either A. C. or D. C. but must not be more than 40 volts above or below that stamped on the Generator. To use proceed as follows:

First:—Take Generator from the carrying case. You will find two cords of different lengths attached to it. the shorter one having an attachment plug at the extreme end.

Second:-Remove the electric light bulb from socket and connect the plug in place of bulb. Once you have done this insert whatever Applicator you intend to use into the handle as far as it will go.

Third:--Turn on the current in just the same way as when you turn on the light.

The Generator should start "buzzing" at once. Should it not do so turn the knurled adjusting knob-toward "W" (Weaker)-two or three turns. If after this the Generator does not start turn the knu led knob slowly toward "S," until the Generator starts buzzing

IT SOMETIMES HAPPENS THAT WHILE THE CURRENT IS SHUT OFF AT YOUR LAMP SOCKET, SOMEONE TURNS THE ADJUSTING KNOB TO-WARDS "S" (STRONGER)—NEVER SUSPECTING THAT BY TURNING THE ADJUSTING KNOB TO THE RIGHT, CLOSE TO OR AS FAR AS IT WILL GO, THE CURRENT IS BRIDGED FROM ONE WIRE OF THE LINE TO THE OTHER WIRE WITHOUT PASSING THROUGH THE HANDLE WHERE THE HIGH FREQUENCY AND VIOLET RAY IS PRODUCED AND LET INTO THE GLASS APPLICATOR

DUCED AND LET INTO THE GLASS APPLICATOR
WERE YOU TO LEAVE THE CURRENT
BRIDGED IN THIS WAY FOR A FEW MINUTES
THE ELECTRICITY WOULD BE CHANGED INTO
HEAT AND RUIN THE INSULATION IN THE GENERATOR.

When the knob is turned toward "W" (Weaker)simply turns off the current, stopping the Generator's

"buzzing" but doing no harm.
Fourth:—The adjusting knob should never be turned while the current is off, as you cannot then know when to stop turning. By regulating the strength of the current in the Applicator while the Generator is working or "buzzing" you can easily judge when to stop ing or "buzzing" you can easily judge when to stop turning, the more you turn toward "W" the weaker the current, while the more you turn the adjusting knob toward "S" the stronger the current. Tests for strength may be made by trying the glass Applicator against the palm of the hand.

When the strength is suitable proceed with the treatment as specified in the Instruction Book.

After you become accustomed to the Generator you can quickly tell by the volume of light and the sound just how strong the force is.

The Generator leaves our laboratories so adjusted that to produce a dangerous current is the nearest thing to impossible.

When through always turn off the current at the lamp socket and it is also safest and best to detach the Generator cord entirely at the lamp socket.

Sterling Violet Ray Generators are adapted for universal use. They work as well with Direct as with Alternating current—and operate at any voltage. The Generators made to operate at 110 volts can be operated at any voltage from 90 to 150 volts and those marked 220 volts will operate at voltages of from 150 to 250 volts. When Generators to operate at a higher voltage are desired we are prepared to make them on short notice. The same is true if the Generators are desired to operate at voltages anywhere from 30 to 100 volts.

100 volts.

TYPE "C" OPERATING INSTRUCTIONS ARE IN GENERAL THE SAME AS FOR TYPE "A."

CARE OF GENERATOR-TYPE "A"

Each Sterling Violet Ray and High Frequency Generator leaves our laboratories in perfect condition and properly adjusted and when treated with just ordinary care and used as directed should last indefinitely. Nevertheless once in a great while it may happen that the cord breaks just as it enters the handle and sometimes it breaks where it enters the generator box. To repair this without returning Generator to us—simply proceed as follows:

While the Generator is running hold handle in one hand with Applicator inserted and with other hand move cord, a few inches from handle, sideways—up and down and twist. While so doing if cord is broken near handle, the broken part will momentarily and irregularly come in contact and light the Applicator while Generator will work normally. Once this is done one knows at which end the cord is broken. If it happens to be at entrance of handle—unscrew handle cap and after disconnecting cord from the coil inside of rubber handle—taking care and observing how this is connected, cut off where cord is broken and uncoil the two wires as you had previously found them—connecting same as before. If cord happens to be broken as it enters Generator box, then proceed as follows:

Turn adjusting knob towards "W" until the adjusting knob becomes detached from the wire spiral or spring. Once this is done, with a narrow screw driver unscrew and take out the five little screws to be seen around the face of the Generator box. After these five screws are removed the front cover is easily removed also and the two connectors to which the wires or cord connect are plainly seen. With same small nar-row screw driver do not remove but loosen these two screws-one in each post-and remove cord by pulling or unscrewing it from hole at side of Generator box where it enters. Then cut off two or three inches of where it enters. cord as directed above, and connect same as you found cord connected. To mark wires is unnecessary as the Sterling Generator is so constructed that as long as the two wires—one in each post—are connected, it is immaterial which wire goes to either post—simply connect one wire to each post and tighten screws as found. After this is done replace front cover and screws and screw adjusting knob in place—never forfound. getting to insert brass part of knob into spiral wire spring before screwing it into place. This spring is important and should never be omitted. the Generator is ready to be attached to lamp socket again and current turned on-turn adjusting knob toward "S" until Generator starts "buzzing."

Should it happen while using Generator only a very weak and faint glow of current is obtained at Applicator even while using the intensifier—or surface Ap-

plicator—it may be caused thru a damage or puncture to the High Tension Coil which is found inside the rubber handle. This seldom or never happens and is only mentioned as a precaution so that the owner of a Sterling Generator will not ship the entire Generator to us for repairs. In this case all that is required is to send us the High Tension Coll alone. Remove this from handle as above directed, mail same to us and we will replace it without delay.

"BABY" VIOLET INSTRUCTIONS

This Instruction Book, which also accompanies each Sterling "Baby" Violet Ray Generator, contains the complete and regular directions for handling and using our larger size-Type "A" or "C" Violet Ray Genera-

The same treatments may be followed with confidence in using the Sterling "Baby" Violet Ray Generator but as the smaller machine does not have the same volume of current as the larger machines the results may not be quite as prompt.

The "Baby" Violet is a one-piece machine weighing but twenty ounces, all of it being self-contained in the handle. It is therefore slightly simpler to use than the two-piece "A" or "C" designs but is not quite as sturdy or as well designed for deep-seated ailments.

The Operating instructions are similar to those of

Type "A" as well as its care.
In regulating the current turning the adjusting knob to the right increases the strength and to the left decreases it.

REMEMBER-one thing-which is VERY IMPORT ANT-never turn the current off to the right and leave it off as this "bridges" it and will quickly burn out and ruin the machine.

CARE OF GLASS APPLICATORS

The Sterling Applicators are made from the best grade of glass obtainable for the intended purpose. Some are plain vacuum and others are insulated, which prevents the rays emerging except near the end. Each glass Applicator is hand made one at a time and before leaving our glass department each time and before leaving our glass department each one is tested. If found defective they are immediately rejected. While the glass used is of the highest quality this does not infer that Applicators are unbreakable. They will never break under ordinary care but every Applicator particularly the Intensifier and the surface White Ray and Violet Ray Applicators will sometimes give out and not light. This is caused by the current punching thru the glass invisible tiny holes by which the surrounding air enters the Applicators, thus rendering them useless. air enters the Applicators, thus rendering them useless. While this seldom occurs we cannot guarantee any glass Applicator—some will last months and years, others become defective thru punctures within a few days or weeks of use.

Never place a glass Applicator while warm or immediately after removing it from the Generator handle upon glass topped or marble tables nor wooden stands the rapid variation of temperature is liable to

crack or injure the Applicator.

When removing Applicator from handle of Genera-tor immediately after use it is better to place the glass Applicator upon towel or cotton cloth or anything that is not of a contrasting degree lower than temperature of Applicator, or place it back in carry-Ing case.

Always wash Applicators in hot water before and

after use, especially in infectious cases.

The current itself is a strong antiseptic and germ-Icide and will destroy any microbe that comes in con-tact with it, but the Applicators should be washed for the sake of cleanliness.

HOW TO USE APPLICATORS Nos. 0 - 00 -2

Whenever a strong current is used through these Applicators a sparking sensation is felt while bringing it in contact with the skin. By carrying out the following instructions you will avoid all the unpleasantness of the sparking.

After the generator is attached to the circuit and After the generator is attached to the circuit and in working order and the Applicator is inserted in the handle, then place the thumb and forefinger against the Applicator near the handle and apply to the skin quickly. After the skin comes in contact with the Applicator, remove the thumb and forefinger. Whenever the Applicator is to be removed from contact with the skin, repeat the operation, that is, place the fingers as formerly.

When extremely strong current is used, as recom-mended for certain allments, the patient is to place his or her hand about the bulb of the Applicator while holding the rubber handle with the other and then apply Applicator to the skin where desired, keeping the hand on constantly, or removing if the current is tolerable. In this case, part of the current goes through the arm and part through the place where the Applicator comes in contact with the skin, thus relieving the high pressure concentrated in a small area. Nevertheless, the body receives all the current. For certain ailments, as will be found under the different headings in this book, it will be better to

stand the current as per directions given.

HOW TO USE METAL SATURATOR NO. 13

General Tonic Treatment-General Electrification

First turn on the current, then hold the metal Saturator in one hand and the rubber handle in the other. Insert the Saturator into the handle while the generator is working, keeping hold of the Saturator until treatment is over, then pull the Saturator from the handle. This being done, turn off the current at the socket. Never remove the hand from the Saturator while the current is on unless it is done very quickly, otherwise an unpleasant sparking is caused, although not injurious.

DON'TS

Don't oil the Generator nor any of its parts.

Don't fall to read our guarantee, front and back.

Don't permit the Generator to run when not in actual use and when no Applicator is in the handle, as the High Frequency current, if generated and not taken away from the coil inside of the rubber handle. produces heat and, while great harm is not done, it never does any good.

Don't turn the adjusting knob when the Generator is not actually working because if turned too much towards left or right the Generator may not start at once when next attached to the lamp socket and the current is turned on.

Don't forget that the Sterling High Frequency and Violet Ray Generators, in some respects, resemble an expensive well made watch, they will last a life time and keep in good working order when properly treated.

Never come in contact with any metal or with cord of Generator when taking treatment. The body is then saturated with electricity and if in close proximity of any conductor—the current will jump from the body to the conductor and while no danger can come from this it is unpleasant. Remember that the cord of the Sterling Generator never leaks. If while using the Intensifier or the metal Saturator, or the Violet or White Ray surface Applicators, you come in contact with the cord a spark with slight shock may be felt. It is because the body is so charged that the current is endeavoring to leak from body and escape, Whereupon the current passes from body to cord BUT NEVER FROM CORD TO BODY.

Don't tamper with your machine or allow anyone else to do so. Don't go beyond the cover otherwise you will ruin the machine and our responsibility ceases. For repairs consult us.

TREATING INSTRUCTIONS AS A BEAUTIFIER-FACE MASSAGE

Use either Applicator No. 00 or 0 from 5 to 8 min-utes, passing Applicator all over face and neck, rubbing from under chin upwards and towards back of head, and from under chin downwards, always keep-ing Applicator firmly against the skin. Treat once daily or every other day.

UNDERDEVELOPMENT

Treat all over breast with Applicator No. 00, using a mild current, from 5 to 6 minutes to each breast once daily.

While treating, press gently, always keeping good contact between the skin and Applicator, also pass Applicator in a circular motion and not up and down, or sidewise.

FLABBY BREAST

Treat the breast, particularly about the nipple, with Applicator No. 00 from 10 to 12 minutes to each breast, using a fairly strong current and always making good contact with Applicator.

Treat once daily.

HAIR AND SCALP

For diseases of the scalp either the rake or straight Comb Applicators No. 4 or 5 are extremely useful and if the Violet Ray thru one of these Applicators is used at least once every other day from 5 to 10 minutes, the user will perhaps never again complain of falling or brittle hair nor of Dandruff.

The benefit of massaging the scalp is very marked. It strengthens the scalp tissues thereby preventing falling of the hair. A good way of strengthening the scalp and giving healthy hair growth is by holding the Saturator Applicator No. 13, with one or both hands and using mild current while a second person massages the scalp, vigorously rubbing the scalp with a semi-circular motion, using the tips of the fingers. person has never been treated this way a long time has elapsed since the last treatment the scalp may pain somewhat or a form of headache may be felt for the first few treatments, but this will gradually disappear as the scalp becomes accustomed to it, which is generally within eight or ten treat-ments. This little discomfort will be found well worth while as once the scalp becomes strengthened one can easily stand a strong pull on the hair without the least pain.

People with blonde and brunette hair require dif-rent treatment. Those who are blonde or light ferent treatment. complexioned require shorter applications to obtain equal results.

DANDRUFF

The High Frequency and Violet Ray will not take Dandruff away from the hair unless the hair is very short. It simply removes the Dandruff from the skin or scalp, leaving it mingled loosely with the hair.

Experience has taught us the following:

Certain people, especially women, after using the Violet Ray for a number of times have found that they had more Dandruff than when they began the treatment. Of course this was a mistake on their part and they were convinced after they had followed the suggestion here offered, which we hope will also convince the reader of this booklet, what the Violet Ray did was to remove all Dandruff from the scalp and clean the skin from any foreign matter, leaving Dandruff loose on the head and free in the hair.

The Dandruff should be removed from the hair with a fine comb or by brushing after each treatment.

Use Comb Applicator No. 4 or 5 with a medium current strength from 6 to 8 minutes daily.

NOTE.—Do not apply the Violet Ray to the hair immediately after using any preparation containing 40% or more of alcohol as this is inflammatory.

FALLING HAIR

For falling hair there are few things, if any, as beneficial as the High Frequency, either the White or Violet Ray.

For some people the White Ray is better than the Violet, for others the contrary is the case.

High Frequency will not stop falling hair with one treatment, but when faithfully used for a length of time, the results will many times repay the trouble.

Comb the hair with either Comb Applicator No. 4 or 5, from 5 to 10 minutes every day, and after a month the results will speak for what the High Frequency can accomplish.

BARBER'S ITCH

Treat with Applicator No. 00, using a rather strong current, keeping Applicator about one-eighth inch from the skin.

Treatment should last from 11/2 to 2 minutes twice daily for three or four days, after which, if necessary, once daily or every other day.

ITCHING SCALP

Use either Applicator No. 4 or 5, from 10 to 15 inutes. Treat all over head area, using a medium minutes. strong current.

BLACKHEADS AND PIMPLES

First treat with surface Applicator No. 00 over the First treat with surface Applicator No. 00 over the part where the blackheads or pimples are located for from 3 to 4 minutes, using a fairly strong current. After this use any of the pointed Applicators as for instance the Nasal No. 10 with the same strength of current as before, throw a spark to the blackhead or pimple, keeping the Applicator from one-eighth to a quarter of an inch away from the skin, letting the spark jump across.

The treatment for each pimple or blackhead should last from 5 to 10 seconds.

last from 5 to 10 seconds.

ERUPTIONS

Eruptions of the skin are common and the majority of cases are due to carelessness and negligence of the proper hygienic measures.

Treat from 5 to 8 minutes with intensifying Applicator No. 2, barely touching the skin, using a fairly strong current.

This treatment is also especially adapted for greasy and shiny skin except that the Applicator should in such cases make good contact with the skin.

In both cases the Applicator should be slowly and constantly moved across the skin.

WARTS AND MOLES

The proper treatment of warts is by using the Ful-geration Electrode No. 9 but they can also be success-fully treated with any of the pointed glass Applicators by following same instructions as for blackheads and pimples except that the treatment should be from 35 to 45 seconds.

After each treatment a slight soreness and warmth is felt and in some cases, especially where the indi-vidual has red or light hair, a local irritation may set in. This is nothing to be alarmed about but such persons should allow three or four days between treat-

A large wart usually requires from four to six treatments of 35 to 45 seconds each and will dry up and drop off within ten to twelve days, the remaining mark gradually disappearing within the next thirty or forty days, leaving no scar as a memory at the end of that time.

BOILS OR FURUNCLE

Treat with Applicator No. 0 which gives White Rays, use a strong current, and while keeping Applicator not less than \(\frac{1}{8} \) from the Boil or Furuncle treat the entire affected area from 7 to 9 minutes, twice daily, letting the current spark from the glass Applicator to the Boil. Should the treatment be too severe for certain places of the body use less strength or current and cut down the time accordingly.

WRINKLES-SKIN REJUVENATION

Use the Violet Ray Applicator No. 00 over the chin and cheeks, making a good contact with the skin but not pressing and rubbing always upwards from the chin and from the front of neck around to the back and then down to the shoulder.

In most cases a layer of foreign matter will be found adhering to the Applicator and it will surprise the operator to know that the supposedly clean skin really held all of this dirt and grime.

We know of nothing better to clean the pores of the skin, stimulate the surface capillaries and restore normal healthy circulation to dull, pallid, flabby skin than the High Frequency and Violet Ray either used thru the Applicator No. 00 or the Intensifier No. 2. Treatment from 5 to 7 minutes daily or every other day.

AFTER SHAVING

Practically all men suffer more or less discomfort after shaving, either from irritation of the skin or from small cuts, bruises, abrasion or pimples.

Any man will be convinced after using the Violet Ray thru Applicator No. 00 three or four times after shaving of the superiority of the Violet Ray over any cream or lotion. As a germicidal it has no equal, it seems safe to say.

The bleeding of any small cut or bruise may be stopped in ten seconds by using the Violet Ray Applicator No. 00, scarcely touching the cut but by permitting a liberal spray of current to be created between the Applicator and the skin. In other words to properly treat and stop the cut from bleeding throw the current from the Applicator directly to the cut by keeping the Applicator within a sixteenth or one-eighth of an inch from the skin. The bleeding usually stops within five or ten seconds but should the cut be of such size that the blood bursts forth again after the removal of the Applicator simply repeat the treatment for from 15 to 25 seconds, which, however, is seldom required.

Cases of sore skin caused by the razor or close shaving will be found to disappear almost immediately after a short treatment. The treatment should always be given after one has finished shaving and the skin is washed free of soap and thoroughly dried.

CARE OF THE FEET

In most cases callous growths can be banished by the steady use of the Applicator No. 00.

For blistered feet use the White Ray Applicator No. 0 every morning and evening before retiring. To apply the White Ray to its best advantage it should be used after soaking and washing the feet in hot salt water. After properly drying the feet treat while the pores of the skin are open and the skin soft. This treatment will be found most valuable and pleasing and the little trouble will be amply repaid.

GENERAL AFFLICTIONS EAR AILMENTS

Treat with Applicator No. 11 from 10 to 12 minutes, using a mild current. Use as often as required.

When inflammation exists, treat about the ear with Applicator No. 00 from 5 to 8 minutes with mild cur-

DEAFNESS

Apply a mild current thru Eye Applicator No. 7 from 5 to 6 minutes. Whenever the heat is too great remove Applicator for a few moments, then repeat. Treat mornings and evenings.

EYE AILMENTS

Apply a mild current thru Eye Applicator No. 7 from 5 to 6 minutes once daily. If both eyes are affected use the Double Eye Applicator No. 8.

When inflamed use also White Ray Applicator No. 0 over the part swollen from 3 to 5 minutes at each application.

ALCOHOLISM

As a stimulant apply with Surface Applicator 00 through 6 or 7 thicknesses of dry white cloth to the muscle masses, also up and down through center of abdomen for intervals of 3 to 4 minutes, keeping it constantly moving.

This condition is worthy of serious attention and the treatment is much more efficient when auto-con-densation is an auxiliary. Therefore, we advise your consulting one capable of administering it complete.

ABSCESSES

The name abscess is given to certain circumscribed

The name assess is given to certain circumscribes cavities containing pus.

There are many parts in our body where an abscess may manifest itself and to be frank, certain form of abscesses ought to be treated by the Dentist or Physician as the case may be. For example: An Alveolar Abscess should be handled by the Dentist, while a Fecal or Lacunar Abscess should be treated by the

By using the Violet Ray, as soon as the abscess starts, its action may be stopped by applying fairly strong current through the Violet Ray Applicator, making good contact with the affected area.

Treatment:—If the Abscess is just starting to grow or manifest itself in any way use surface Applicator No. 00 which produces the Violet Ray.

If the Abscess is already in existence it is better then to treat it with the White Ray surface glass

Applicator 0.

Apply the current in either case right to the part affected, making good contact. Use fairly strong current—about half the Generator's output is proper—and apply from 4 to 10 minutes daily, stopping treatment for two or three days should the affected part become too irritated.

COLD IN HEAD

Apply Violet Ray thru nose with Applicator No. 10, from 4 to 5 minutes. Also apply current about face, forehead, back of head and neck from 15 to 20 minutes morning and evening, using Applicator No. 00. The use of Ozone Inhaler described on page 28 is even more efficient.

CARBUNCLES

For the treatment of Carbuncles the Intensifying Applicator No. 2 is to be preferred, although the plain Surface Applicator No. 00 may be used to advantage. With either Applicator strong current should be used. When Carbuncles are just starting, use the Applicator giving Violet Ray. Where Carbuncle is developed, the Applicator giving White Ray is to be preferred. The treatment should last from 10 to 12 minutes daily. minutes daily.

The Applicator is to be passed over the entire area affected by the Carbuncle but do not press the Applicator, merely pass over with the slightest pressure.

Never keep the Applicator motionless, move it back and forth constantly during the entire treatment.

In practice it is found that while High Frequency Violet Ray or High Frequency White Ray has proved effective in a surprisingly large number of cases, there are also some cases where the X-Ray used in conjunction with the Violet or White Ray—whichever the case may be—obtains better success.

While we also supply either X-Ray tubes of low and high vacuum or X-Ray Applicators, we feel that these tubes or Applicators are best handled only by an expert physician, or Electrotherapeutist, therefore we do not sell them to the general public.

SUN-STROKE

Use a very weak mild current applied thru Violet Ray Applicator No. 00 and apply to place affected.

Treatment to last from 8 to 10 minutes once a day.

DRUG HABITS

The treatment of Drug Habits with the High Frequency and Violet Ray is much better handled by the expert physician or Electrotherapeutist.

When the patient is suffering from morphinism or the opium habit give the following treatment: Apply strong sparks with Intensifying Applicator No. 2 over liver and central part of the abdomen from 2 to 3 minutes at a time. Also give general electri-

fication with Saturator No. 13 for 15 minutes. The treatment for cocaine habit is quite different. Cocaine habit may be treated by most anyone who knows how to operate the Sterling Violet Ray High Frequency Generator.

Treat with Applicator No. 00, using fairly strong current and Violet Ray. Apply current to soles of feet and all over arms and legs until reddening of the skin starts to appear. Keep Applicator constantly moving.

NOSE BLEED

Reports on this condition indicate that treatment with the Violet Ray Surface Applicator No. 00 on the back of the neck and shoulders is beneficial. Treat from 6 to 8 minutes.

HEADACHES

No other form of ache is so common and universal. Some head pains are rheumatic, some others neu-ralgic, or the pain may be caused by a tumor inside the head, by an abscess, by indigestion, nervous or sexual disturbances or come from other causes.

The most common form of headaches are neurasthenic, anemic, hyperemic, reflex, toxic and digestive.

In nearly every disease of the stomach, headache is a common symptom, and we may safely say that in almost every case of headache a certain degree of digestive disturbance is associated.

In many cases the stomach is the direct cause of headache.

Certain headaches resulting from causes in the di-gestive tract are toxic, and are caused by the fermen-tation of decomposed food.

Treatment:—Use the Surface Applicator No. 00 which gives the Violet Ray. Use fairly strong current and apply to seat of pain, keeping the Applicator moving all over the place affected between 5 and 7 minutes at a time.

Next use the Violet Ray Intensifying Applicator No. 2 over the stomach, also on back of neck and spine, treating area covered by Nos. 2, 3, 4 and up to No. 1, as indicated by charts on pages 26 and 27—treatment to last 4 minutes for seat of pain and 7 to 8 minutes for neck, stomach and spine.

BRUISES AND SPRAINS

Apply a mild current thru Surface Applicator No. 00 over the seat of pain or stiffness for 10 to 12 minutes

RIGG'S DISEASE OF THE GUMS

Pyorrhea Alveolar is about the worst enemy our

teeth have. We invite Pyorrhea whenever the teeth are neg-

Pyorrhea is a discharge of pus, it is a progressive necrosis of the tooth socket. Necrosis means death, therefore the proper name for Pyorrhea would better be "Tooth Destroyer or Tooth Killer,"

To protect your teeth against Pyorrhea you must clean them properly with an antiseptic, keep them free from tartar and "acquire the habit"—use the

Are your gums delicate, do they tend to bleed when you use the tooth brush? If they do, do not wait until tomorrow-act at once.

Treatment:—Insert Applicator No. 30 in the handle of the Sterling Violet Ray Generator, turn on the current at the lamp socket, adjust Generator to a mild current, place the "T" like end of the Applicator in good contact against your gums and move sidewise all over the upper and lower gums. Duration of treatment should be between 5 and 6 minutes. ment should be between 5 and 6 minutes.

DISEASES OF THE SKIN GENERAL AFFLICTIONS OF THE SKIN

Treat with White Ray Applicator No. 0 over the entire area affected. Use a fairly strong current and but barely touch the skin with the Applicator.

Treatment: from 10 to 40 minutes according to space treated once daily or every other day.

ERYSIPELAS

Treat part affected with a mild current thru White Ray Applicator No. 0 from 4 to 6 minutes at a time every other day.

Judging by the character of this disease the White Ray ought to prove beneficial.

Hold Violet Ray Surface Applicator No. 00 between hands and inhale the ozone generated for 3 or 4 minutes.

Then insert White Ray Applicator No. 0 into the handle and apply a mild current to parts affected, barely touching the body with the Applicator. Applicator should be kept moving and never still in one spot.

Treat from 10 to 12 minutes once dally.

POISONING

In order to treat poisoning intelligently the character of the poisoning should be known. In some cases there is nothing superior to the Violet Ray.

In poisoning we advise the prompt consulting of a physician capable of its discriminating use.

INFECTIOUS DISEASES LAGRIPPE AND INFLUENZA

influenza or LaGrippe is a contagious catarrhal fever, marked with extreme nervous exhaustion.

Treat thru nose with Applicator No. 10 at same time Treat thru nose with Applicator No. 10 at same time breathing in thru the nose and out thru the mouth, keeping this up for 3 or 4 minutes as often as required. Also apply a strong current over the entire chest, throat, shoulders, down the back and over shoulder blades, using Applicator No. 2 or the White Ray Applicator No. 0. This treatment should last 15 minutes once daily. (See page 28—Ozone Inhaler).

The spine may also be treated, using Applicator No. 6, which is specially made for this purpose.

TYPHOID FEVER

If the Violet Ray is used in this ailment it should be only in the hands of an Electrotherapeutist or Physician.

MALARIA

MALARIA

Malaria is an infectious disease of the blood. Treat with Saturator No. 13 by holding same in both hands alternately, that is, 3 or 4 minutes hold Applicator with right hand and 3 or 4 minutes hold it with the left. This treatment should last from 15 to 20 minutes twice a day.

Also apply a fairly strong current, using intensifying Applicator No. 2 or White Ray Applicator No. 0 over chest, throat, shoulders, back over shoulder blades and down to the thigh, turn patient over and continue treatment over abdomen until the starting place or chest is reached. Treatment to be given thru a thin white cloth, keeping Applicator constantly moving.

SMALL POX

Just as this infectious disease starts to break out, or before if possible, treat the entire body with the intensifying Applicator No. 2, using a fairly strong current. Keep Applicator constantly moving and barely touching the skin.

This treatment should not last less than 35 minutes

and should be given once or twice dally.

ASTHMA

The inhalation of ozone has proven beneficial. Hold intensifying Applicator No. 2—using a fairly strong current—in the palm of the hand and inhale the ozone so produced from 10 to 20 minutes. Better still use Ozone Inhaler (see page 28).

Also use External Throat Applicator No. 3 about throat from 5 to 7 minutes.

When first an attack of Asthma appears it is well to use Applicator No. 0 about hips, chest and under

arms; also apply about nose. Use a fairly strong current for 10 to 15 minutes.

HAY FEVER

Follow same treatment as for Asthma.

CATARRH (NASAL)

Use Nasal Applicator No. 10 within the nose, using a very mild current. Treat both sides from 2 to 3 minutes each.

Then treat outside with Applicator No. 00 or No. 2 from 5 to 7 minutes, using a rather strong current and making good skin contact,

Also inhale the ozone generated while holding bulb of Applicator in closed hand for 5 or 6 minutes. (See page 28-Ozone Inhaler.)

BRONCHITIS

Use Intensifying Applicator No. 2 sending thru it a fairly strong current. Cover the chest and back with three or four layers of white clean cloth and treat thru the cloth from 5 to 6 minutes, keeping Applicator constantly moving. After that hold Applicator between closed hands and inhale the ozone generated from 10 to 12 minutes. Repeat this three times daily while chest applications once daily is sufficient. (See page 28-Ozone Inhaler.)

PLEURISY

Treat same as Bronchitis.

PNEUMONIA

Treat same as Bronchitis.

TONSILITIS

High Frequency is not very dependable in Tonsiiitis but in some cases has been very beneficial especially when used in time.

Treat with External Throat Applicator No. 3 about throat from 7 to 10 minutes, using a fairly strong current. Also treat internally thru mouth with insulated Throat Applicator No. 12 from 4 to 6 minutes, using a fairly strong current.

SORE THROAT

Treat inside, thru mouth, with Applicator No. 12 from 1 to 4 minutes according to affection. Also use External Throat Applicator No. 3 from 8 to 12 minutes twice daily with a medium current. No. 12

TUBERCULOSIS

If used in time the High Frequency thru Intensifier Applicator No. 2 is beneficial. Treat the entire body using a fairly strong current.

Also hold Applicator between closed hands and in-hale the ozone generated. While treating body, pay most attention to the chest, back, throat and about nose.

See that Applicator has at all times good contact with the skin and move it constantly.

Treatment should last from 20 to 30 minutes daily.

(See page 28-Ozone Inhaler.)

DISEASES OF THE STOMACH AND INTESTINES

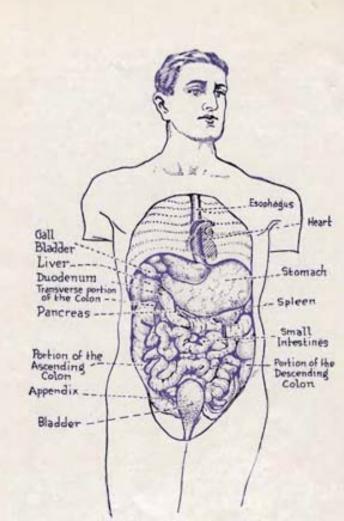
Use Surface Applicator No. 00 over entire stomach and abdomen, from 10 to 12 minutes with strong current, also hold in hands near nose and inhale the ozone produced by this same Applicator when grasping same with both hands. Treatment from 3 to 4 times per week.

GASTRITIS

Treat over stomach, abdomen and chest with Intensifying Applicator No. 2 from 12 to 15 minutes, making good contact and using a strong current. If Applicator has a tendency to stick to the skin dust a little talcum powder on it which will prevent this. Treatment mornings or evenings.

CONSTIPATION

Treat with Intensifying Applicator No. 2 over abdomen, using strong current—about three-fourths full strength—from 10 to 12 minutes. Also treat thru



Principal Abdominal Organs

rectum with Insulated Applicator No. 23 first, then with one of the Dilators Nos. 37, 38 or 39, according with one of the Dilatators Nos. 37, 38 or 39, according to required size.

Treatment should last from 4 to 6 minutes or 2 to 3 minutes with each Applicator. Treat daily at first, afterwards 3 times per week.

If desirable the Applicator may be lubricated, using a little glycerine on a tuft of cotton.

OBESITY

Obesity or Fatness is a disease caused by a change in the intimate condition of the cells within the body. Treat with metal Saturator No. 13 from 20 to 25 minutes daily, using a fairly strong current.

PERITONITIS

Treat first with White Ray Applicator No. 0 from 7 to 8 minutes over the abdomen, using a medium strong current.

Then apply with Intensifying Applicator No. 2 from 6 to 8 minutes over abdomen and thighs, using a mild current and moving Applicator constantly. Repeat both treatments once daily.

DISEASES OF THE LIVER AND GALL BLADDER JAUNDICE

Jaundice is a yellow coloration of the skin caused by some disarrangement of the liver.

Treat over No. 5—see chart on pages 26 and 27—with White Ray Applicator No. 0, using a fairly strong current from 6 to 7 minutes and with Applicator No. 2 from 4 to 5 minutes daily.

PILES OR HEMORRHOIDS

Treat with Hemorrholdal or Piles Applicator Nos. 24, 25 or 26, from 5 to 6 minutes daily, using a medium strong current.

DISEASES OF THE KIDNEYS DIABETES

Treat with Intensifying Applicator No. 2 over the entire abdomen and back, using a fairly strong current and making but slight contact with the skin.

Treatment to last from 10 to 12 minutes daily for two or three weeks, after that treat every other day.

Also use Saturator No. 13 from 5 to 8 minutes daily.

BRIGHT'S DISEASE

Treat with Applicator No. 2 over abdomen and lower part of back, from 10 to 12 minutes daily, using a medium current strength.

Also use Saturator from 10 to 15 minutes daily.

In women's treatments, from 4 to 6 minutes with Applicator No. 18, thru the vagina, is in some cases very helpful.

UREMIA

Uremia is indicated when the blood from an accumulation of urea becomes of a toxic or poisonous condition.

Treat with metal Saturator No. 13 as directed on page 7, from 12 to 15 minutes daily.

Also apply a strong current over the lower part of the abdomen with White Ray Applicator No. 0 from 6 to 8 minutes.

NEPHRITIS

Nephritis is an inflammation of the kidneys.

Treat over No. 13—see charts on pages 26 and 27—with Intensifying Applicator No. 2 from 10 to 12 minutes, keeping Applicator constantly moving. Also treat from 8 to 10 minutes daily with metal Saturator

Treat with Spinal Applicator No. 6 over the spine from 5 to 8 minutes daily, using a medium current. Also apply intensifying Applicator No. 2 with a strong current over abdomen and thigh. The skin strong current over abdomen and thigh. The skin should be first powdered with talcum powder to prevent the Applicator from sticking.

The entire treatment ought to last from 15 to 18 minutes.

DISEASES OF THE BLADDER

Cystitis and Anuria particularly are both amenable to treatment with the Violet Ray but only when handled by the qualified physician.

DISEASES OF THE GENITO-URINARY ORGANS

GONORRHOEA IN MALE

Gonorrhoea in the male may be treated with the White Ray Surface Applicator No. 0 from 10 to 12 minutes daily.

The Urethral Applicator No. 16 is to be used thru the canal but only in the hands of an Electrothera-peutist or physician. The Urethral Applicator No. 16 is sold only to practitioners.

ORCHITIS

Treat with Surface Violet Ray Applicator No. 00 over testicle and lower part of abdomen from 5 to 7 minutes, scarcely touching the skin with the Applicator and using a fairly strong current, every other day, stopping treatment for a few days should the parts become too irritated.

IMPOTENCY

Use Prostatic Applicator No. 35 and apply a strong current over the cenital parts, over the inguen or groin, over the bladder, and using spinal Applicator No. 6 over the lower part of the spine. The inguen is the depression between the thigh and body, also called groin.

Treatment should last from 10 to 12 minutes, barely touching the skin with the Applicator, two or three times per week.

Also apply a moderately strong current thru rectum with Applicator No. 23 from 3 to 5 minutes.

VARICOCELE

Treat with Intensifying Applicator No. 2, using strong current and applying current to entire scrotal area or between urinary and rectal channels, thru two to four thicknesses of white clean cloth. Treatment to last from 3 to 4 minutes once daily.

PROSTATIS

Treat with Prostatic Applicator No. 35 or with Surface Violet Ray Applicator No. 00 from 10 to 12 minutes daily, using a mild current.

NOTE:-In specific treatments of this character where the condition is at all serious, it is best to conthis character, sult a competent physician who can administer the Violet Ray.

DISEASES OF THE HEART ANGINA PECTORIS

Treat with External Throat Applicator No. 3 from 7 to 10 minutes at the throat and down over shoulders.
Also the Intensifying Applicator No. 2 with a mild current from 4 to 6 minutes. Over Nos. 9 and 3, see charts on pages 26 and 27. Treatment should be entrusted to the physician.

ARTERIOSCLEROSIS

Should be treated with metal Saturator No. 13 by holding it in the hand, using fairly strong current. Treat from 12 to 15 minutes daily.

DISEASES OF THE BLOOD

Treat with metal Saturator No. 13 from 10 to 12 minutes daily. Also with Surface violet Ray Applicator No. 00 over entire body, using a fairly strong current, and barely touching the skin with Applicator.

ANEMIA

Treat with Surface Violet Ray Applicator No. 00 over lips, chin and nose.

Hold Applicator with one hand and inhale ozone generated for 5 minutes. (See page 28 about Ozone Inhaler.)

Also apply a medium strong current with spinal Applicator No. 6 over the whole spine, keeping Applicator moving slowly.

MILK-LEG

Apply strong current with Intensifying Applicator No. 2 to part affected for 6 minutes daily. Also general electrification with metal Saturator 13 is recommended of from 10 to 12 minutes duration.

Before Dropsy can be intelligently treated the exact nature of the case must be known.

DISEASES OF THE MUSCLES AND JOINTS ARTICULAR RHEUMATISM

Treat with Intensifying Applicator No. 2 over the seat of pain, using a strong current. The patient should sit, bend or stand so as to bring pain while

the treatment goes on.

Make very slight contact with Applicator to skin and keep Applicator constantly moving but slowly.

Treatment should last from 25 to 30 minutes daily. Should skin become sore postpone treatment two or three days.

RHEUMATIC ARTHRITIS

Same treatment as for Articular Rheumatism.

GOUT

On account of the peculiar nature of this ailment It is better left for the physician.

The patient should sit or bend the body or make whatever movement that brings pain. Use the intensifying Applicator No. 2 over the part indicated by

the pain as being most affected. Use a fairly strong current and just barely touch the skin with Applicator. Make the patient bend or rise and apply the High Frequency thru Applicator No. 2 while rising or bending. This is rather painful but pain will disappear within 10 minutes in most cases.

Repeat treatment once a day until pain ceases to return.

WRITERS' CRAMP

Treat with Intensifier Applicator No. 2, using a fairly strong current. Treat from finger tips, all over hand, wrist, forearm, arm and shoulder, making but slight contact with Applicator and skin.

Also apply current over neck and between the shoulder blades.

Treatment should last from 15 to 20 minutes every other day, or daily if skin stands without irritating.

Some persons can endure more current than others without discomfort, but in any case, if irritation sets in suspend treatment for a few days.

RHEUMATISM

Apply current to seat of pain with Applicator No. 2, using a fairly strong current and making but slight contact or barely touching the skin. Treat from 10 to 12 minutes at a time.

MUSCULAR SORENESS

Cause ought to be found first-then treat accordingly.

Treat from 15 to 20 minutes with Applicator No. 13 and from 5 to 8 minutes with Applicator No. 00, using a medium current.

CRAMPS

Apply a medium current to area affected thru Applicator No. 2 from 8 to 10 minutes.

CONTRACTION OF MUSCLES
Use metal Saturator from 25 to 30 minutes daily.

HIP JOINT DISEASE For treatment see Articular Rheumatism.

SYNOVITIS

Treat with Violet Ray Applicator No. 00 from 10 to 12 minutes, using a medium strength current and barely touching the skin with the Applicator, that is, touch the skin but without pressure.

in chronic cases the White Ray Applicator No. 0 is better. Give a strong current from 10 to 15 minutes thru 2 or 3 folds or layers of white clean cloth, placing the cloth between Applicator and the skin.

DISEASES OF THE BRAIN AND NERVES ST. VITUS DANCE

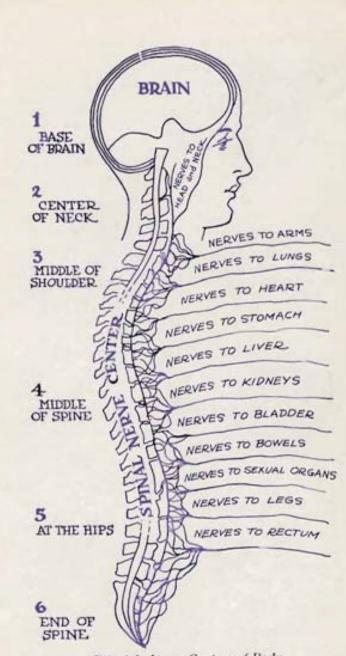
Treat with metal Saturator No. 13 from 20 to 25 minutes daily. Also treat the entire body with Intensitying Applicator No. 2, using a strong current and moving Applicator slowly but with firm contact. Treat two times per wick from 20 to 25 minutes each treatmen?

GOITRE

Treat over goitre and neck with Intensifying Applicator No. 2, using a very strong current, barely touching the skin with the Applicator. Treatment to last from 6 to 8 minutes every other day. Should skin become sore after 4 or 5 treatments discontinue for one week, after which treatment may be continued again.

HYSTERIA

Treat with Spinal Applicator No. 6 over the spine from 7 to 9 minutes, using a mild current and moving Applicator up and down the spine slowly. Also use metal Saturator No. 13 from 7 to 8 minutes. Strong application over abdomen, using Intensifying Applicator No. 2 and making but slight contact are recommended in some cases. This last treatment should last between 5 and 7 minutes.



Principle Nerve Centers of Body

NEURASTHENIA

Hold Violet Ray Applicator No. 00 between closed hands and inhale the ozone so generated from 7 to 8 minutes daily.

Treat back of head, neck and over abdomen from 8 to 10 minutes, using a medium strength current and making good skin contact with Intensifying Applicator No. 2.

A general tonic treatment with the metal Saturator No. 13 is also beneficial.

PALSY

For treatment see Paralysis.

SCIATICA

Treat with the Intensifying Applicator No. 2, using strong current—about two-thirds the output of the Sterling Generator—over the lower part of the spine, over the whole thigh, leg and foot, also over lower



Sterling Violet Ray Generator — Type "A" shown in carrying-case with the V. R. glass Surface Applicator, the Metal Tonic Saturator. Complete with Instruction Book.

ULT HAVE BUILDING MURDOWN PRINCIPLES FOR THE PARTY OF THE

Sterling "Baby" Violet Ray Generator shown in carrying-case with the V. R. glass Surface Applicator, the Metal Tonic Saturator and Instruction Book.





Sterling Heating Pad, with three-heat pushbutton switch — scientifically correct—always reliable—even temperature—no better pad can he built at any price.

Sterling Ozone Inhaler—the most sanitary, efficient and valuable product of this style yet produced. Complete with bulb, vaporizing oil and instructions.



part of the abdomen. Treatment should last from 15 to 20 minutes. The Applicator should be in constant movement all over the sensitive parts or seat of pain. Do not press the Applicator against the skin but just slide it along.

If Applicator sticks to skin, apply talcum powder over the part to be treated.

Treat daily for three or four days. After that once every other day will suffice.

INSOMNIA

Inhale ozone generated by holding Intensifying Applicator No. 2 between closed hands. Also treat with White Ray Applicator No. 0 about lips, nose and throat from 10 to 12 minutes daily. Better still use Ozone Inhaler (see page 28).

LOCOMOTOR ATAXIA

This ailment should not be treated by the layman or novice. Consult your physician.

Sterling Faradic Violet
Ray Generator showing
some extra Electrodes.
Price includes Hand
Electrodes and Cords,
V. R. glass Surface Applicator, Metal Tonic
Saturator, Carrying-Case
and Instruction Book.





Sterling Type "A"
Generator — alone —
weight three and onehalf pounds—dial regulation—Longoria design
—in synthetic compound
die moulded shell—monarch of all its kind.

"Improved" C Outfit.
Includes Glass and
Metal Applicators and
Instruction Book. All
complete in handsomely
marked and polished
Selected Hardwood Case
with Polished Face
Plate.





Sterling Immersion Water Heater—has a hundred practical uses and never fails. Convenient, efficient — durable—complete.

PARALYSIS

Treat over paralyzed muscles, using the Intensifying Applicator No. 2 with a heavy strong current, barely touching the skin with the Applicator. Keep Applicator constantly moving and treat from 8 to 12 minutes daily.

NEURALGIA

Treat over the seat of pain with Intensifying Applicator No. 2 from 5 to 8 minutes, using a strong current and barely touching the skin with Applicator. Treatment with Saturator No. 13 is also recommended from 12 to 15 minutes daily.

NEURITIS

This is another ailment which should be handled by the practitioner.

EPILEPSY

This disease may be treated to advantage with the White Ray Applicator No. 0 but the proper treatment is the X-Ray tube or X-Ray Applicator No. 1.

CATALEPSY

Use Spinal Applicator No. 6 over the whole spine from 5 to 7 minutes, using a mild current.

Treat with Intensifying Applicator No. 2 over abdomen, thighs and back, using a fairly strong current and making perfect contact between Applicator and skin.

General electrification with metal Saturator No. 13 has also proved beneficial in many cases.

DISEASES OF WOMEN

Treat with metal Saturator No. 13 by holding same with one or both hands, from 20 to 25 minutes daily, using a medium strength current.

DISEASES OF THE WOMB

Certain Womb Ailments may be helped if not altogether cured by the use of High Frequency and the Violet Ray.

Treat thru vagina with Vaginal Applicator No. 18 from 5 to 7 minutes, using a mild current.

Also apply a strong current with Applicator No. 2 over Nos. 7, 8, 11 and 12—see charts on pages 26 and 27—from 7 to 10 minutes duration, keeping Applicator constantly moving but slowly.

AMENORRHEA

Menstruation in Young Girls When Irregular, Scanty or Delayed

A painful menstruation is needless, do not wait until you pass the nineteenth or twentieth year of your birth, the longer you wait the harder it is to cure. Better stop taking whiskey, cin, coal tar products and see your physician. If he is an up-to-date one, he will use the High Frequency Violet Ray. It may be that you do not like the idea of going to anyone and telling them your personal trouble. If your case is not an old one you may treat it yourself right in your home with the Sterling Violet Ray Generator.

Treatment:—Regulate the Generator to give a fairly strong current—about three-quarters the output—sit in a wooden or springless chair, or lay in a bed with a rather thick mattress. Then take hold of the Generator's handle with your left hand and with your right hand insert the metal Saturator No. 13 into the handle as far as it will go. Now the High Frequency current is all thru your body acting as a tonic and as a blood purifier.

a blood purifier.

Never take your hands off the metal Saturator, or turn on or off the current while holding same.

After the treatment is over or the current is to be turned off for some reason or other, remove the Applicator from the handle first, then set handle aside and turn off the current at the socket.

This treatment should last between 15 and 20 min-

Directly following this, use the Violet Ray Applicator No. 00 for 8 or 10 minutes over the area covered by No. 6—(see chart on page 26)—once daily or every other day. In certain cases where greater penetration and heat are desired use Applicator No. 2 which gives a stronger and more penetrating current than Applicator No. 00, producing greater heat. Treatments of from 10 to 12 minutes are usually sufficient.

Do not expose yourself to draughts or bad weather within an hour and better not at all.

AMENORRHEA IN WOMEN

Irregularity or Suppression of the Menstruation

Use insulated Applicator No. 18 thru the Vagina, treatment to last from 5 to 6 minutes by the clock and not guessed at. Take treatment every other day, or a daily treatment of 3 to 4 minutes each. Then apply with Applicator No. 00 over the lower part of the spine, using a fairly strong current. Between the spine and Applicator place from 2 to 3 folds of some clean thin cloth.

apply with Applicator No. 00 over the lower part of the spine, using a fairly strong current. Between the spine and Applicator place from 2 to 3 folds of some clean thin cloth.

Treatment should last 4 minutes, keeping the Applicator moving constantly. The treatment just described is rather unpleasant as the task given to the High Frequency current is to attract certain amount of blood to the area treated. The area treated will be-

come of a pigmented color-pinkish or reddish colorand will feel rather warm for an hour or so afterwards.

DYSMENORRHEA

Same treatment as Amenorrhea in Women.

LEUCORRHEA

Use Insulated Glass Applicator No. 18 and proceed as follows:

The patient should lay on her back over a thick mattress or wooden table and insert the Vaginal Applicator as directed for Menstruation—see Amenorrhea in Women.

Then apply with the Spinal Applicator No. 6 a strong current over the spinal region from lower part of neck down to end of spine, keeping Applicator moving constantly up and down the spine.

Treatment to last from 5 to 6 minutes daily from 5 to 8 days, afterwards every other day.

MENAPAUSE-(CHANGE IN LIFE)

Treat with White Ray Applicator No. 0 over spine, back of head and neck. Also over abdomen.

Place three folds or layers of white clean cloth between Applicator and skin, using a medium strong current, applying current thru cloth. Treat from 20 to 25 minutes every other day.

OVARITIS

For treating certain ovary affections such as neuralgic pains, irritations, tenderness, and the like, the High Frequency and Violet Ray has been very successful from the start and is gaining ground daily. Treatment causes no discomfort or pain whatever and is not the least complex.

The patient should lay on her back, with knees bent, and body relaxed.

Then apply a strong current over Nos. 8 and 12—see charts on Pages 26 and 27—using Surface Applicator No. 00 and pressing firmly but not so hard as to break glass Applicator. The Applicator should be moved slowly and treatment to last 5 to 6 minutes each side, daily or every other day.

GONORRHEA IN WOMEN

Treat with plain Vaginal Applicator No. 17 thru the Vagina from 5 to 7 minutes every morning and with Insulated Vaginal Applicator No. 18 from 4 to 5 minutes by the clock every evening before retiring.

For chronic cases the White Ray Vaginal Applicator No. 18-W is recommended.

NOTE:—In specific treatments of this character, where the condition is at all serious, it is best to consult a competent physician who can administer the Violet Ray.

DISEASES OF CHILDREN

Treat inside of throat with insulated Applicator No. 12, using weak current from 2 to 3 minutes, and outside of throat, using Applicator No. 3 for about 6 minutes morning and evening.

MEASLES

This is a contagious disease of children known to science as Rubeola.

The best marked characteristics of its effects are the eruption of the child's skin. A physician should be consulted at once, but to prevent the disease from gaining rapidly treat the child with a mild current, using White Ray Surface Applicator No. 0 all over the entire body.

Treatment should last from 15 to 20 minutes, never keeping Applicator stationary but move slowly and constantly. Repeat twice daily.

GERMAN MEASLES

Treat same as Rubeola or Measles.

MUMPS

Apply White Ray with Applicator No. 0 to swollen part and surroundings. Treat once daily from 10 to 12 minutes. Use a mild current and make good contact between the part affected and Applicator.

WHOOPING COUGH

Known also as Pertusis and it is a contagious disease.

Treat patient with the Intensifying Applicator No. 2 over the shoulders, across from shoulder to shoulder back and front, using a fairly strong current for about 10 minutes, then with External Throat Applicator No. 3 treat all around the throat from 5 to 8 minutes, using the same intensity of current as before. About 30 or 35 minutes afterwards hold Applicator No. 00 in the palm of the hand with hand clasping Applicator and inhale the ozone then generated for 20 minutes. The Ozone Inhaler is very valuable in this allment. (See page 28.)

CROUP

Use Tongue Applicator No. 14 to give a mild flow. Place Applicator flat on top of tongue and close the mouth.

Treat from 5 to 6 minutes, taking deep breaths thru the mouth and exhaling by the nose.

Also use Nasal Applicator No. 10 about face and nose, and Surface Applicator No. 00 about face, nose and throat externally from 7 to 10 minutes. Immediate resort to the Ozone Inhaler described on page 25 will save much anxiety.

INFANTILE PARALYSIS-POLIOMYELITIS

In such a serious case as this the treatment should be administered by a physician or Electrotherapeutist and not attempted by the novice.

Place five or six layers of thin clean white cloth between the parts to be treated and the Applicator.

Apply strong sparks with Applicator No. 2 to the spine and parts paralyzed for 2 minutes.

As some persons are more sensitive than others, the physician or operator should judge how often the treatment should be given. An hour or so before the above treatment begins give, with the metal Saturator No. 13, a general body electrification from 10 to 12 minutes. General electrification should be given twice daily.

CHICKEN POX

This child's disease is also known as Varicella, it is infectious and eruptive.

Treat entire body with Applicator No. 0, making good contact and keeping Applicator moving constantly 20 minutes once daily.

INSTRUCTIONS FOR USING STERLING FARADIC TREATMENT SYSTEM

From the group illustration on page 21 you will observe all there is to see of the Sterling V. R. Faradic Generator Type "A." The entire apparatus is self-contained in the Generator. May also be had in Type

Near the machine you will notice the two cylinder Hand Electrodes and Cords, the Foot Plate, the Metallic Comb, the Brush, the Simplex Roller, two Wrist Plates and two Hand Sponge Electrodes. They all have their distinct uses as will be described later.

Either on the face or the side of the Generator are four holes, each numbered; the following arrangements are in the order of their strength:

- 1 and 2-Low Strength.
- 1 and 3-Medium Strength.
- 1 and 4-High Strength.

The combination 2 and 3 is about the same strength as 1 and 2, while 3 and 4 has about equal strength with 1 and 3.

The current is all of one kind, there is no positive or negative. The voltage may be graduated from 5 to 25 volts. In the one machine are both a Low and a High Frequency Current.

To use Faradic Cylinder Hand Electrodes attach the connecting cords if not already in place and insert the metal tips on the other end into the desired holes on the Generator.

If other Electrodes are to be used, connect them with the cord and Generator in the same Way.

Because of the simplicity of the Sterling Faradic V. R. Generator and on account of the entire absence of acids or liquids, it gives much satisfaction to those not familiar with handling the old style apparatus.

BABY VIOLET FARADIC GENERATOR

Here is something entirely new and exceedingly interesting as well as useful.

This is a device SEPARATE ENTIRELY from the B. V. Generator itself. It can be applied to any B. V.

It consists of an induction winding encased in a ring of black fibre of a size that will barely slip over the Baby Violet. On it are mounted two terminals for making the usual Faradic connections to the handles or other electrodes.

To operate slide this ring along the B. V. toward the knob end and as it proceeds the Faradic or low frequency current will increase in strength OR the Faradic Ring may be located at any given spot and the power controlled by the regular V. Ray adjustment Knob and we will let you surmise how this mysterious action is accomplished.

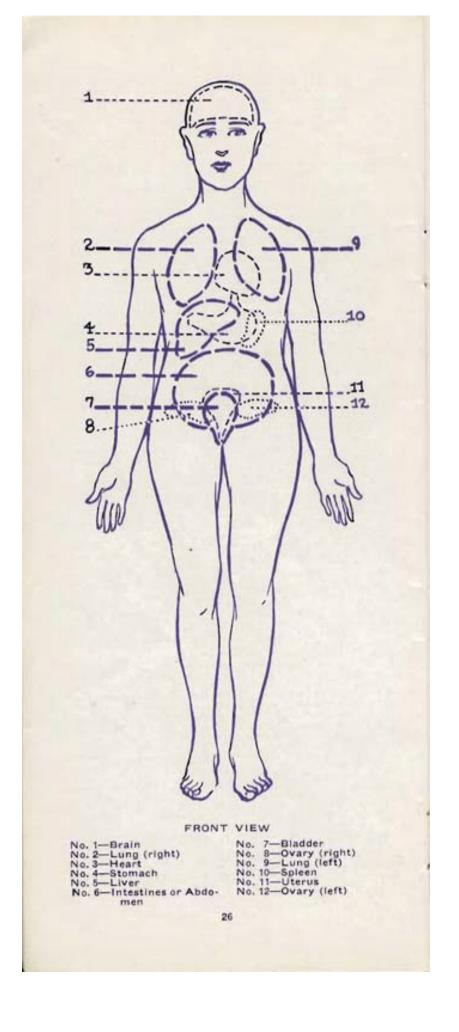
This attachment is unprecedented—nothing like it has even been offered with a V. R. Generator before. Remember, the B. V. Faradic Generator has absolutely no connection whatever with the B. V. by wires or otherwise.

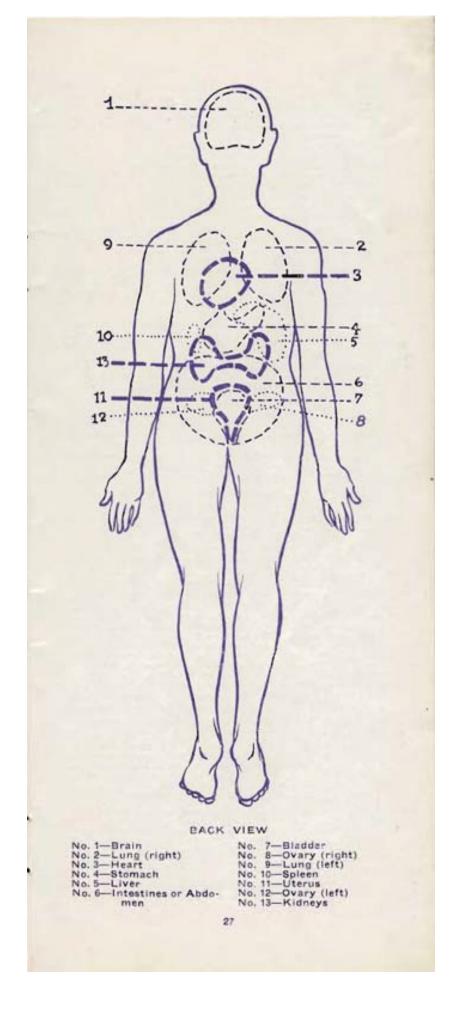
For purposes of entertainment scientific interest and medical value this entirely new departure is most amazing.

GENERAL TREATING INSTRUCTIONS

No inflexible rule can be given for the treatment of disease, but there are a few general suggestions that it is well to know.

- 1. The Faradic current is not a substitute for the Violet Ray and their action is wholly different. Experience will acquaint you with their relative values for different purposes. The Violet Ray is a far superior form of treatment, much broader and offers greater advantages, but the Faradic current will prove a faithful and valuable assistant. Rest, proper living, diet and fresh air are others.
- 2. In treating, avoid sudden shocks. These are never of service and if the patient is of a nervous temperament, they may be harmful. Begin by holding the Electrodes loosely when first turning on the current. By tightening the hands you may regulate the strength of the current as desired.
- 3. It is important to adopt some definite form of treatment and to follow it persistently. The tonic effect of the treatment may be slow to notice, but the treatment should not be hastily abandoned for that reason as it takes time to effect results in some cases.
- 4. The different ranges of current provided by the Sterling Faradic Generator and its gradual regulation enable you to determine just what strength is best suited to your case. In most instances it is better to begin with a mild current and increase to suit the requirements.
- 5. Short treatments are ample. In ordinary treatments from two to eight minutes or at the most fifteen minutes is quite sufficient; the nature and condition of the aliments usually serve as a guide. The exceptions to this are in the treatment of some chronic aliment as chronic articular rheumatism and in general tonic electrizations where a little longer time can be allowed.
- 6. No absolute rule can be made regarding how often to treat. This depends upon the nature of the ailment, the sex, age, and habits. Some acute cases require daily treatments, seldom more than that. In chronic cases from two to four times a week may be enough. (Continued on page 28.)





- 7. The continuance of treatment cannot be predetermined. Chronic cases naturally require the longest courses. Obstinate cases may require from two to six months with occasional rest periods and perhaps the variation value of the Violet Ray and other natural remedies.
- 8. When using the Sponge Electrodes, they should be well moistened, preferably with water which contains a little sait, and pressed steadily upon the part to be treated. The steadier the pressure of the Electrodes the more agreeable will be the sensation and the better the effect.
- 9. Use whichever Electrode appears most convenient for the application.
- 10. The Electrode not used in the direct local treatment of the ailment should either be held in the hand, placed at an extremity of the body, the back of the neck or at the base of the spine.
- 11. DO NOT USE THE FARADIC CURRENT AT THE SAME TIME AS THE VIOLET RAY BECAUSE CONTACT IN SUCH A CASE WILL GIVE AN UNPLEASANT SHOCK.

Three distinct ranges of current can be used, the Low or Weak Strength which is the connection 1 and 2, the Medium Strength whi: is the connection 1 and 3, and the High or Strong Strength, which is the connection 1 and 4.

The range 1 and 2 may be called the Primary and the range 1 and 4 the Secondary, while 1 and 3 is from Primary to Secondary and this is the one most used. It may be termed Medium.

The Primary current is used particularly in the treatment of scrofula, ulcers, growths, enlarged tonsils, enlarged joints, granulated eyelids, enlarged glands, strictures and other conditions of this character.

The Secondary current is applied in the treatment of nervous and inflammatory ailments and acts as a tonic upon the system. It is of greater tension.

There are two main ways of applying the Sterling Faradic current.

ONE-By Local Electrization.

TWO-By General Electrization.

By the first method special nerves, muscles or organs are influenced and the action of the current is limited to these parts.

By the second system the current is passed thru the entire body or a substantial part of it.

For a refreshing effect to relieve fatigue or avoid paralysis, the muscles can be exercised thru the use of the Violet Ray and General Faradic Electrification used alternately. For business and professional men and others of sedentary habits this form of treatment will be found very welcome as it imparts new life and vigor. It soothes, strengthens and exhilarates. It brings sleep and tranquility to the most nervous organism—tired nature's sweet restorer.

The location of an alling part or organ may be

The location of an ailing part or organ may be partly determined by its sensibility to the treatment.

This sensibility serves as somewhat of a guide in administering the treatment.

Examination of internal organs is made with the Handle Sponge Electrode. Both the sponge and the body where the application is to be made should be moistened. Adapt the remedy to the condition. Some people require a general electrization of the entire system which is accomplished as follows:

Sit with the feet preferably bare, on the Foot Plate or else place this plate at the base of the spine. Then use the Handle Sponge Electrode and treat every part of the body. Begin with the forehead, neck, shoulders, arms, body to legs. The chest and legs will stand much more current than other places. Do not use enough current to tire as this would be an overdose.

This treatment is well adapted for insomnia and states of debility. The use of the Faradic current for nervous Dyspepsia often gives great relief.

SOME STERLING SPECIALTIES

"No Life Complete Without Them"



OZONE INHALER

The Sterling Ozone Inhaler is the first satisfactory and fully efficient article of its kind ever produced for use with a small High Frequency Generator.

It is used in the same manner as any of the Appli-

It is valuable in the local treatment of Throat, Nasal Bronchial and Lung affections such as Coughs, Colds, Catarrh, LaGrippe, Bronchitis, Laryngitis, Pharyngitis, Asthma, Hay Fever, Croup, and for its general beneficial influence upon the blood and system in Nervous Allments, Neurasthenia, Anemia, Insomnia and others of a like character. It is a Sterling relief.

With this Sterling Inhaler the most potent, diseasedestroying, health-giving element of nature may be applied locally and directly to the affected area with an assurance of prompt relief.

TWO PIECES ONLY Patents Pending

The Sterling Electric Ozone Inhaler is made entirely of a special quality glass and each is blown separately by hand. It is twelve inches long and is very light in weight. Nascent Ozone is very active and quickly combines with most all substances but this Sterling Applicator being all glass provides full efficiency without waste.

It consists of the stem part for inserting into the handle of Generator, the vacuum tube, the converting or mixing chamber where the oxygen is made into oxone by the action of the Sterling High Frequency current, and where the oil and oxone amalgamation takes place and a rubber bulb attachment for discharging the mixing chamber.

It is made in only two sections which is another Sterling innovation. The delivery end has a ground glass bottom which perfectly fits the ground glass neck at the top end of the body. This feature eliminates the necessity for corks which are insecure and unsanitary.

The parts are both standard and if either ever becomes broken the other may be obtained separately.

The apertures are large and readily permit cleaning.

The washing chamber is loosely packed with a soft fibrous material which may be soaked in the oil, thereafter offering an effective cleanser to passage of the fumes and impurities.

As the High Frequency discharge passes thru the exhausted vacuum chamber a liberal supply of ozone is steadily produced.

This is purified by the oil bath thru which it passes in the washing chamber above. This oil bath also absorbs the nitric fumes present in some degree with the separated ozone.

The delivery of both the vaporized oil and the ozone is forced to the patient by pressure on the rubber bulb.

The Sterling oil used with the Inhaler is neutral and a perfectly harmless scientific blend of pure essential oils each having distinctive and time proven efficacy. The combination has a soothing influence upon the membranes and affected parts, besides being cooling. Its healing characteristics are distinctive and most marked. In the administration the oils become supersaturated with Ozone which is thus conveyed to every section of the throat, nose and lung passages where the ozone is discharged.

its well known antiseptic and bactericidal properties are in this way thoroughly distributed and thoroughly manifested.



PINOZOR-AIR PURIFIER AND DISINFECTANT

This inexpensive Sterling attachment does the work of many of the large and costly apparatus designed for dedorizing, disinfecting and purifying the atmosphere and contents of rooms.

It generates a stream of ozone which destroys the organic and injurious matter found in the air and washes it clean just as a bath does the body, soon removing the musty, mouldy, sickly smell.

It may be used while the patient lies comfortably in bed, in fact it is beneficial to them and not at all injurious to plants and furnishings.

Many more uses for it will be apparent.

ELECTRIC HEATING PAD

Like all Sterling products this Heating Pad is made with a conscience and with the comfort, convenience, safety and satisfaction of the user always in mind.

Imagine the relief brought to the distressed by this thin, light, flexible, soft, soothing creation, which readily conforms to any part of the body.

It gives a gentle, healing heat, continually and evenly distributed.

It is a welcome successor to that disagreeable nuisance the old, heavy, clumsy, hot water bag which needs constant refilling, may burn or discharge scalding water and which "cools off" just as comfort comes.

The Sterling pad wins quick friends by its good work in all ailing conditions benefited by the continuous application of heat such as sprains, toothache, chills, cramps, grippe, pneumonia, insomnia, inflammation, backache, neuralgia, rheumatism, poor circulation and muscular afflictions from foot to head and from babyhood to old age.

It may be used anywhere at any time in the home, hotel or hospital.

Each pad is equipped with an economical, guaranteed, three-heat controlling push-button switch of the National Electric Code Standard.

This is located within easy reach of the user and temperatures of 100 F.—140 F. and 180 F. may be gradually obtained and easily maintained as long as desired. Indicators guide its manipulation even in the dark.

This switch is made entirely of metal and will not bind or lock in any climate and is not subject to temperature changes.

It is made of highly polished nickeled brass and is a most artistic, high-class, reliable feature.

This Sterling pad is safe, cannot overheat and is made doubly danger-proof by two most clever auto-matic thermostats independent of the heating control.

While it is a rugged pad for wear it is so pliable that it may be crumpled into a ball without harming it.

It may be had in a fluffy elderdown cover or a flower-figured cretonne for the same price. The elderdown holds the heat better, the cretonne is the handsomer.

The standard pad operates at voltages of 100 to 125, but pads can be furnished for other voltages.

The Sterling Heating Pad measures $11\frac{1}{2} \times 14$ inches, weighs 28 ounces and has 10 feet of cord with two-piece lamp socket plug.

You can pay more but you cannot buy more in a Heating Pad.

It comes complete all ready to attach, turn on current and use.

Rubberized Waterproof Bags, each, \$1.25. Cloth, 25

ELECTRIC IMMERSION WATER HEATER

This delightful Sterling utility is valuable for emer-gency purposes and has many practical uses at the table and elsewhere.

It assures a good supply of warm or boiling water in a moment at any time.

It will cook bouillon, soup or eggs, in a few minutes and prepare tea, coffee or cocoa promptly.

It will warm baby's milk or furnish water for shaving in a hurry.

Many special purposes have been found for it such as heating oil, wax, glue, pitch, tar, paraffine and keeping such solid substances liquid where desired. In homes, hotels, hospitals, stores, cafes, trains, boats, factories and everywhere the Sterling immersion Heater is appreciated.

It lies flat and so may be used in shallow dishes and for sterilizing instruments as it provides the space and does not interfere.

It is a greatly preferred convenience for physicians, dentists, demonstrators, travellers, and others. It has all the advantages of an electric heater. There is no danger like from an open flame nor the unhealthy attendant condition.

It is so simple to operate and safe that a child may use it.

It will stand long, hard usage and cannot burn out if operated ONLY while immersed, even when run continuously.

It is scientifically constructed to give the greatest efficiency at the least cost. All of the heat goes directly into the material in which it is immersed, quick and economical heating being the result.

The heating unit is permanently imbedded in cement under tremendous pressure and the use of mica is entirely avoided.

It is neat, has a round three-inch foot, weighs with plug and cord but 11 ounces, and the 6% inch handle is always cool. At 110 volts it draws 500 watts. It is fully guaranteed and a handsome heater deluxe that anyone may be proud and glad to own.

Standard sizes 110 and 220 volts which allow a 50 variation either way but heaters can be made for other voltages.

other voltages.

Complete with six foot detachable cord and twopiece plug.

APPLICATORS AND THEIR USE

NOTE:—In each case follow the directions for use given under the specific ailment and not here. See plates at end of book for illustration.

Price in

		e in		
No		s. A.	Elsewh	ere d.
00	SURFACE APPLICATOR FOR			
	VIOLET RAY is used for most general surface afflictions	0.75	4	0
0	SURFACE APPLICATOR FOR			-
	BLUE WHITE RAY is used in	1		
310	chronic and skin ailments	.75		0
0.80	X-RAY LIGHT is sold only to	+ 00	6	0
2	physicians for special purposes INTENSIFYING APPLICATOR is	1,00		
	for deep seated ailments and			
	whenever quantities of ozone and heat are required	3.00	16	3
3	EXTERNAL THROAT APPLI-	TVA .	100	100
	CATOR is for ailments of the throat, arms and legs and is			
	designed to fit such parts of			
	the body	1.00	6	0
4	STRAIGHT COMB APPLICATOR is adapted for the treatment of			
	the hair and scalp	2.00	10	0
6	RAKE COMB APPLICATOR IS			
	preferred by some but the ac- tion of each is alike	2.00	10	0
-6	SPINAL APPLICATOR is mostly			
	applied to diseases of the blood	1.50	g	3
7	and arteries	1100		
1	for eye ailments and some other	-		
8	EYE APPLICATOR—DOUBLE is	.75	4	0
.0	also for eye allments with the			
	purpose of treating both eyes	1.00	6	0
9	FULGURATION ELECTRODE IS	1,00		
10.50	intended for physicians and			
	of certain skin blemishes	1.50	8	3
10	NASAL APPLICATOR-Insulated.			10000
	is for affections of the nose and throat, also catarrhal afflictions	1.75	10	0
11	EAR APPLICATOR—Insulated, is	1110		
2020	designed for the treatment of		-10	
12	ear troubles	1.75	10	c
12	TOR-Insulated, is for all in-			
	ternal throat afflictions	1.75	10	0
13	SATURATOR is valuable wherever a restorative or tonic effect is			
	Indicated and is used in com-			
	for massaging. It is a builder.			
	It yields a different current than			
	the glass Applicators which comes straight from the trans-			
	former in the handle without the alterative effect of the			
	vacuum Applicator. It gives a			
	general saturation and electri- fication of the entire body im-			
	mediately	.75	4	0
14	TONGUE APPLICATOR-Insulat-	1.75	140	
15	ed, is used in fever cases PLAIN URETHRAL APPLICA-	4-70	10	0
10	TOR is for diseases of the urin-			
	ary channel and bladder and is only sold to physicians	.75	4	0
16	URETHRAL APPLICATOR-In-		-	-
	sulated, is for local diseases of			
	the bladder and urinary chan- nel and is also sold to physi-			
	clans only	1.75	10	0
	32			

No		B.	ci.
17	PLAIN VAGINAL APPLICATOR is adapted for special diseases of women	6	0
18	VAGINAL APPLICATOR—Insu- iated, is also for special dis- eases of women	12	3
18-	W PLAIN VAGINAL APPLICA-		-
19	ommended for Chronic Gonor- rheal cases in women 1.50 PERFORATED VAGINAL AP-	8	3
-	PERFORATED VAGINAL AP- PLICATOR is for use by phy- sicians only 2.50	14	0
20	94" diameter	4	0
21	PLAIN RECTAL APPLICATOR—	5	0
22	PLAIN RECTAL APPLICATOR— 1" diameter		0
23	RECTAL APPLICATOR—Insulated—%" diameter, is especially	12	3
	adapted for local afflictions of the rectum	10	0
24	HEMORRHOIDAL APPLICATOR	4	0
25	HEMORRHOIDAL APPLICATOR —34" diameter	5	0
26	HEMORRHOIDAL APPLICATOR —1" diameter	6	0
	treatment of Hemorrhoids and Piles. Per set 2.50	12	3
	DENTAL APPLICATORS		
27	-Insulated-Type "A" for front teeth is purposely designed to		
28	facilitate the application of chemical solutions used in the Dental profession into the tissue 2.00 CATAPHORETIC APPLICATOR	12	3
	CATAPHORETIC APPLICATOR —Insulated—Type "B" for back teeth—Is for a like purpose ap- plicable to the back teeth. This Applicator may also be used on		
29	DENTALOCAL APPLICATOR-	12	3
	Insulated, is particularly adapted to treat any local swelling or lesion of the gums	12	3
30			
31	and bleeding gums being high- ly germicidal and antiseptic 2.00 PYORRHEA APPLICATOR—In-	12	3
-	plicator indicates its use 2.00	12	3
32	DENTISTS' CAVITY APPLICA- TOR—insulated, is properly de- signed for treating cavities and near fillings as this Applicator is entirely insulated except at the extreme point which pre- vents the current jumping from the stem to any metallic filling. This Applicator is also nicely adapted to treat small areas		
	adapted to treat small areas and cavities 2.00	12	3
	33		

No. 35	PROSTATIC APPLICATOR—In-	Price	5.	d.
	the treatment of Prostatic Ail-	2.00	12	3
36	PLAIN RECTAL DILATOR %"		4	0
37	PLAIN RECTAL DILATOR %		-	
-	diameter	.85	5	0
38	PLAIN RECTAL DILATOR 11 diameter These three Applicators have a	1.00	6	0
	ment of Constipation. Per set.		12	3
39	%" diameter	1,50	8	3
40	RECTAL DILATOR — Insulated,		10	0
41	RECTAL DILATOR - Insulated,			
	1" diameter Under certain circumstances the		12	3
	Insulated type is preferable. Per set	4.00	24	6

STERLING FARADIC ELECTRODES

All parts and Cords are Interchangeable.

4.44	Annual Control of the		
50	Comb Electrod	e	\$1.25
51		lectrode	
52		de	
53	Large Handle	Sponge Electrode	1.25
54	Single Cylinde	er Massage Elec-	
			1.70
55	Double Cylind	ier Massage Elec-	
	trode	**************	5.00

This roller Electrode is particularly designed for localizing the application. The current passes from one roller to the other instead of thru the body and so it affects only the places that come into direct contact with the body. The rollers are attached to an insulated bridge which is connected to the handle by a swivel joint. It has two binding posts for attaching the cords.

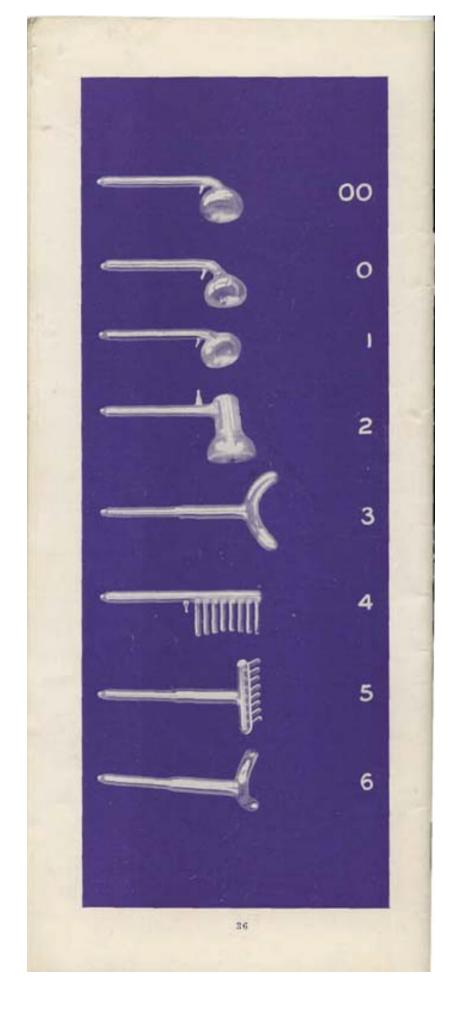
This Electrode was designed by a dermatologist for bleaching the face, but may be used in any treatment where a non-corrosive electrode of this shape is suitable. Size 5x34".

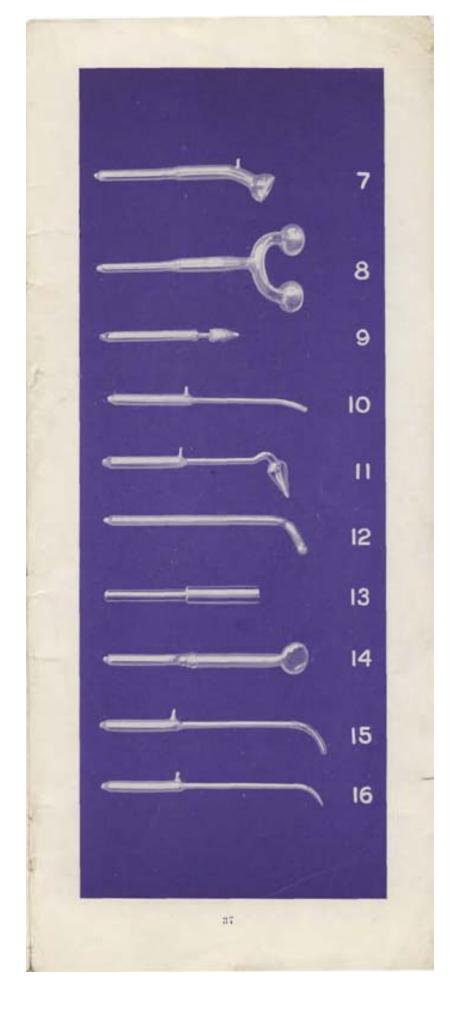
NOTE:—Besides the above we make many Applicators of Special design and are prepared to furnish them for anyone on short notice.

PRICES OF PARTS

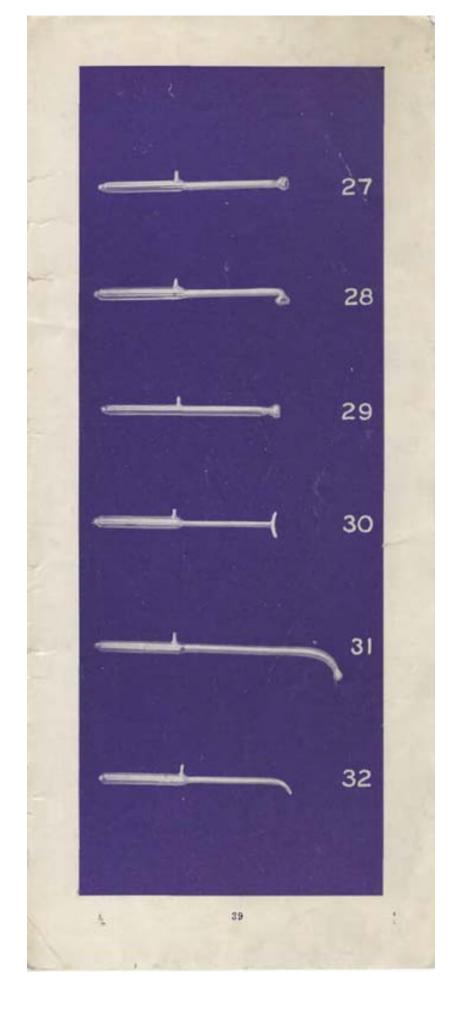
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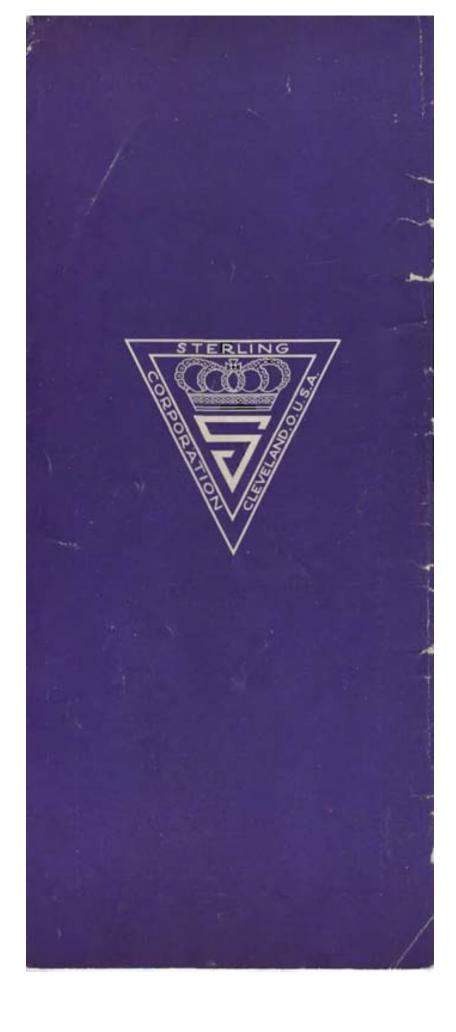
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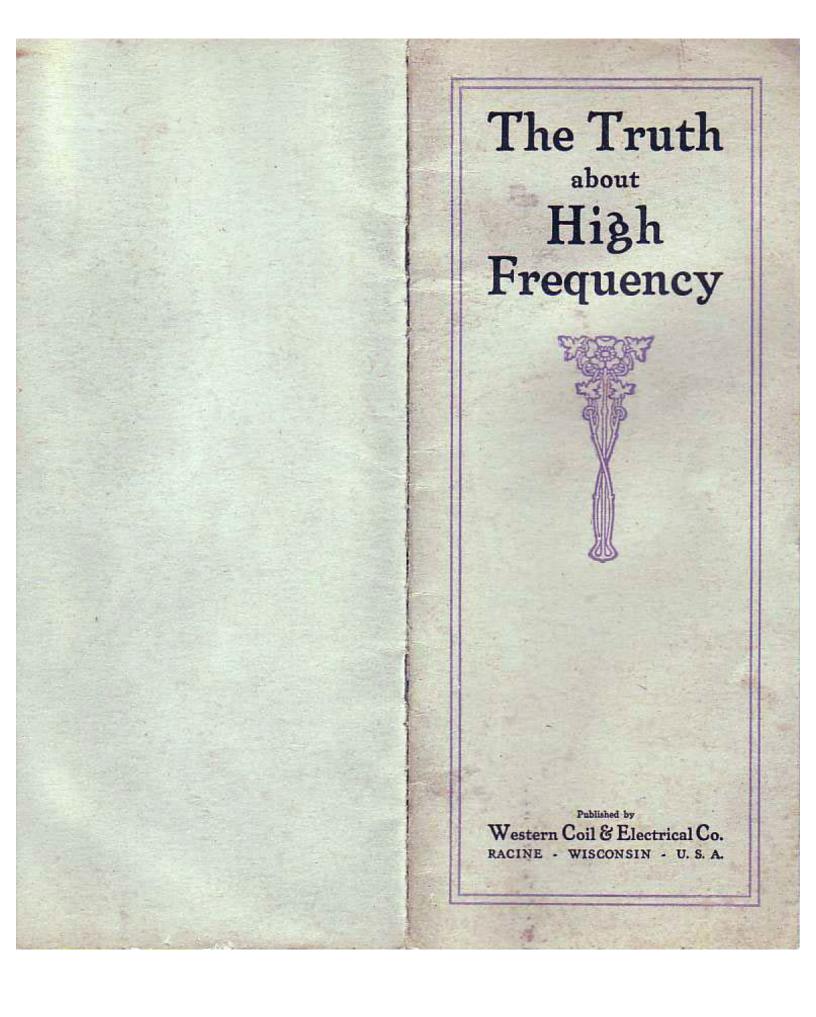












The Truth

about

High Frequency

A Digest of High Frequency Electric Currents

Their Nature and Actions

By

S. H. MONELL, M. D.

New York

Professor of Static Electricity, International Correspondence Schools, 1898-1903; Founder and Chief Instructor, New York School of Special Electro-Therapeutics, 1896-1902; Member of New York Academy' of Medicine, 1895-1900; Editor of "Journal of Treatment," 1904-1905; Author of "A Pictorial System of Instruction for Physicians in X-Ray Methods and Medical Uses of Light, Hot-Air, Vibration and High Frequency Currents", "Manual of Static Electricity in X-Ray and Therapeutic Uses," "Treatment of Disease by Electric Currents," "Elements of Correct Technique in Electro-Therapeutics," "Electricity in Health and Disease," "Rudiments of Modern Medical Electricity," "The Cure of Writers' Cramp," "The Modern Light Bath and Some of its Modifications," etc.

Published By

Western Coil & Electrical Co.

Manufacturers of the World Renowned Vi-Ray-O High Frequency Outfits for the Home and Practising Physicians

RACINE - WISCONSIN - U.S.A.

FOREWORD

0

N offering this epitomized edition of Monell's "High Frequency Currents" to the thinking public we believe a word in explanation may not be amiss. The American X-Ray Journal in speaking of the author has said "Dr. Monell is regarded as one of the foremost thinkers of the medical world, and in electro-therapeutics has done more for static electricity than any other living man. His voluminous writings have made for him a living history. His books on the uses of electric currents . . . in electro-therapeutics have had an enormous sale. As author, teacher, scholar, he is at the top."

As manufacturers of High Frequency Outfits for both the home and practicing physicians it is our desire to spread abroad the real truth about High Frequency. It has been so long misunderstood or so little understood that we believe it high time that the public be better informed of its real mission and value.

We know of no better way to accomplish this aim than by putting this volume of excerpts from Monell into your hands. You will find it at once scientific, informative and intensely interesting.

We have not taken up the application of High Frequency to specific diseases in this book. But to those who are interested we shall be glad to send our treatise on the subject upon application.

When you have read this volume we should be glad to have you pass it along to some interested friend. Or, if you will send us the names of friends whom you know are interested we shall be glad to send them copies of "The Truth About High Frequency" without cost.

Western Coil & Electrical Co.

Manufacturers of the World Renowned "Vi-Ray-O"
High Frequency Outfits for the Home and Practicing
Physicians.

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Also Owners of Copyright on
"High Frequency Currents in Medicine
and Dentistry"

By S. H. Monell, M. D.

A FABLE

Dedicated to His Colleagues by the Author

A GREAT Musician, wandering in the Forest with his \$10,000.00 Violin, fell Fast Asleep beneath a Tree, and the Animals gathered in discussion. One said, "What is the Box the Man has?" "It is a Mystery," said Another. "No one Knows What it is; It is Very Mysterious!" said they all.

"It is a New Discovery," remarked the Ostrich.
"I was the First to See it," said the Lynx-Eyed Lynx. "I was the First to Describe it!" cried the Giraffe. "I Mentioned it First"—"I Improved it"—"I Modified it"—I Invented the Wood of Which it is Made"—"I Devised the Hole in the Handle"—Shouted the Quartette of Claimers with one Voice.

"The Method of Making it Go Originated with Me!" Clamored the Camel. "Not So," said the Learned Fox; "I had been Using it a Half-Hour before you came," "It is in its Infancy," said the Cautious Turtle, "and Should be Thoroughly Investigated." "I long ago Abandoned It," said the Sacred Ox. "And I," repeated the Roebuck; "And I," echoed the Buffalo; "And I," Chimed the Chorus of Independent Scientists in the Back Seats.

"It is a Music Box," spoke the Conservative Owl who was Up a Tree. "What will it Play?" asked the Lion. "A Whole Lot," answered the Owl, who had Traveled and heard Paganini and Ole Bull.

"I Do Not Believe It," said the Animal from Alice's Wonderland. "It is entirely Empty, it Cannot Make a Sound," said One who stepped Close and Looked into It; while another gave the Box a Knock and Confirmed his Colleague's report.

"Let us Try it," said the Kangaroo, whose wits had been Remarkably Sharpened. "Yes! Let Us Try It," said they All; but on Reflection the Conservative said, "We do not Accept it as a Universal Orchestra: it Has not been Scientifically Demonstrated as Yet."

At length Several Extremists, noted for Pursuit of the New, exclaimed with Enthusiasm, "We have No prejudice Against Scientific Music; Let Us Try It!" So the Moo-Cow rubbed the Strings of the Violin with her Nose, and they Moaned; the Elephant drew his Trunk across the Strings and they Groaned; the Hippopotamus Gently Stroked them with Her Tail, and they Wailed; and at the Scratch of the Leopard's Claws they gave a Sharp little High-Pitched Cry.

The Koodoo Africanus swept a Triumphant Glance around: "I Told You So! this is Not a Universal Piano Player, it will Not play Everything!"

"It Evidently has its Limitations! it is Not an Orchestrion," declared the Close Observer who had Watched the Proceedings with Professional Distrust of the Exaggerated Claims Being Made on Every Hand. Taking this Cue, "It is Obviously a Quack Thing!" called the Owl from the Top of the Tree.

"I do not Regard it as a Giasticutus," uttered the Deprecatory Voice of a Critic, and All Agreed that its Value was Greatly Overestimated by Enthusiasts. "As it will not play Every Tune we Cannot Unqualifiedly Endorse it as an Unfailing Harmonicum," was the Sage Verdict of the Wise in the Convention.

"I would Not Advise its Use," spoke the Emu looking on at the Conclave. "Nor I," said Another; "Nor I," vouchsafed a Third.

Thus it was Demonstrated by the Most Scientific Tests (and was the Consensus of Scientific Opinion among the Leading Animals, especially Among the Older and Superior Heads) that "the Alleged Orchestra (or So-called Universal Music Machine) while AdmittedlySuggestive, and Possibly Able to Render Certain Tunes Through the Agency of Suggestion, is not yet Thoroughly Understood and its Employment is not Recommended. The Few Sounds it can make are such only with Respect to a few Notes, and these of No Great Consequence or Significance."

This Preliminary Report was therefore Submitted to the Convention by the Committee of Investigation and Approved and Carried.

Whereupon the G. M. awoke, much refreshed, took his Stradivarius under his arm and that evening at the opera house entranced an immense audience by his interpretations of Beethoven, Mendelssohn and Liszt.

The Truth About High Frequency

PREFACE

I N a plain and conservative way this book will aim to show what high frequency currents of electricity can do.

Their value in many acute and chronic conditions which are common in medical practice has become so marked that mere acquaintance with the results obtained by others should prompt a desire to employ them by all who read of their work.

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If the equivalent of this great pain reliever, antiseptic, and promoter of metabolism, had been a new serum, or antitoxin; or some psychic fad half pseudo-science and half quack religion, the fame of it would have swept around the world in three months. But this remedy—more far-reaching for good than exploited catarrh and cough cures, and vaunted "vegetable compounds", and all the combined "best sellers" of patent medicine factories, in which the American Public invests some hundred million dollars and twenty per cent of its health per yearhappens to be only one phase of an electric current, modest, reticent and conservative, the study of skilled men, the subject of a decade of scientific investigation; and so it has patiently crept into quiet recognition during the past ten years, tested by progressive physicians here and there, and more in Europe than here, yet never losing ground once made, ever gaining increased confidence, and now slowly coming into its own.

CHAPTER I

High Frequency Current—What It Is— Tesla's Startling Demonstration

When street lighting by electricity was introduced a generation ago, the currents employed and the only commercial currents known, shot through their circuits like streaks of searing flame, so "heavy" in quantity that a live wire would destroy life almost as quickly as a stroke of lightning. They were "dangerous" currents, and workmen touched them carefully, or were careless at their imminent risk

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On a memorable night in May, 1891, Nikola Tesla, the Slav, young and enthusiastic, with a poet's mind and the aspirations of genius, stood before the American Institute of Electrical Engineers and lighted lamps with currents passing harmlessly through his own body and heated wires to incandescence by the touch of his

conducting hand.

With smiling countenance and without physical sensation he placed himself in circuits that by all the laws of alternating or continuous currents should have brought the lecture to a close by the death of the daring lecturer. Yet he went sweeping on, astonishing his audience by demonstration after demonstration of unfamiliar discharges, new-born into electrical science and christened with the name "High Frequency." That lecture sent the fame of Tesla around the world.

It was the beginning of the wireless wonders of telegraphy and telephony, and the flight of harnessed motor power through the air; and it created a new weapon for the healing art.

Now, what was it that Tesla had done to the ordinary "heavy" current that robbed it of danger and produced its extraordinary characteristics? In the simplest words, he had practically nebulized it with a transforming atomizer, diffused the heavy stream of current into a discharge of mist, transformed the thick flow of low-voltage current into a myriad of minute particles of tremendously high voltage, imparted to the primary low-pressure volume of the street mains the penetrating velocities of hails of miniature bullets. These alterations in the character of the commercial current made possible its new actions.

In transforming the primary current into high-frequency discharges Tesla took from it some of its former properties. For instance, it lost its electrolytic energy, it would no longer exert the same power through the same motor, it ceased to sear and burn in its track, and contact with it no longer struck the muscles with a paralyzing and deadly shock.

High Frequency "Pulverizes" Current

To comprehend the change is to grasp the explanation of the effects. We can fancy a man beneath a falling cliff, crushed by the mass and stunned to instant death. But if, by an ingenious device, the mass in falling becomes finely pulverized and drifts down upon the man in a cloud of dust, we can imagine that he will still stand erect and can move in and out of the cloud harmlessly.

In effect, and according to the different nature of electricity, Tesla made a somewhat

analogous transformation in the relations of the elementary component phenomena of the current he employed. With its greatly multiplied pressure raised from 110 volts to hundreds of thousands, it easily broke the bonds of ordinary insulators, moved on open circuit and discharged from a single pole.

With particles now infinitely smaller than our blood-corpuscles or the pores of the skin, it passed through the body as sunbeams pour through a keyhole, not stopping anywhere long enough to set up ordinary sensation or stimu-

late any muscle-fibre to contract.

But the gentlest dew feeds plants with moisture and grass grows rank in fogs as well as in the rain. A mist will saturate the leaves of flowers and furnish drink to thirsty soil; and this nebulous, all penetrating, tremendously energetic but marvelously gentle high frequency current will saturate the human tissues from head to foot and feed them with potential vitality from which a new increase of physiological nourishment is derived.

The mechanical devices which regulate amperage, voltage, interruption, and resistance, in medical currents of electricity, have now added to these common and fundamental factors of dosage the fifth and revolutionary factor of "frequency." And it is this new factor acting with certain others which lends to this new phase of electricity the properties which enable the average person to use it in ways that obtain certain therapeutic results which were

previously unknown.

This word "frequency" is a distinctly modern term. The galvanic current does not alternate between positive and negative poles, and hence has no "frequency". The term is not applied to faradic currents at all. They are "interrupted" currents which are relatively low in the scale of volume, voltage, and number of breaks per second. The alternating street current for light and power is usually a 110 volt, 60 cycle current, oscillating only 120 times per second, and this low rate does not call for distinctive consideration.

But when alterations rise above 10,000 per second and voltage mounts beyond the hundreds of thousands, these twin features put such currents into a class by themselves and they are called "currents of high frequency and high potential."

They can be made to attain a voltage above a million and a frequency above fifty billions per second, but with these extremes their medical actions diminish and in practical use a range of from 5,000 to 500,000 and frequencies between 200,000 and ten million is employed.

The greater part of medical treatment is probably done at this time with medium frequencies under two million.

An Electrical Spray

Treatment with this agent presents one novel feature not formerly employed with any other medical current; namely, the administration through a Geissler vacuum tube electrode. The glass and the vacuum act as a "resistance" which, inserted at the end of metallic conduction, acts upon the current something as the resistance of the small outlet against which a vigorous pressure drives the fluid from the bottle of an atomizer—it atomizes it. It turns the denser current into a spray discharge.

It has long been the plaint of the scornful that "we do not know what electricity is", and there has been a demand from such that we should have a definition in set words—as, a cane is a stick; or a quart is two pints—before their confidence could be asked by this agent.

We shall present the modern accepted definition of electricity in a moment, but first take heat—common, familiar heat. The Century Dictionary defines heat as "the energy of molecular motion." It seems plain, but let a stranger from the north pole who has never felt heat enough to know it, take this definition home with him—what help would he get out of it? Could he search, anywhere around him and identify the "energy of molecular motion" close enough to tell his wife what to use it for? What help is the definition of heat to the cook? or to the blacksmith? or to us?

The fact is, that in doing the world's work we

The fact is, that in doing the world's work we use the tools at hand first, and scholars sit down and define them afterwards. It may be doubted today if one in a thousand of the highly educated surgeons who daily use a steel knife know what iron ore is, or can define it. We have lately read that no one knows. If that is true, the incomputable millions of tools made out of iron ore and used without a definition make the alleged need of a definition of electricity ridiculous. The main thing is the use.

Electrons The Foundation of Matter and Force

Nevertheless, here follows the scientific information that you have been asking for, and the perusal of it should leave no further objection to the employment of electric currents.

It is now, since the enunciation of the electron theory some years ago, the conception of science that electricity consists of electrons, the electron corpuscle being the structural unit of all the

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phenomena of matter and energy, the smallest entity in existence, complete in itself.

The corpuscle electrons repel each other, but form alliances, and when they unite in groups of from 800 electrons up to 200,000 these groups constitute the atoms of the various chemical elements, seventy-odd in all, which make up the known forms of matter. The number of electrons in a given group (the 800 group is the hydrogen atom) determines its physical and chemical properties and its atomic weight, through all the solids, fluids and gases of the material world.

These units (each one being a corpuscle of negative electricity) are held in the harmonious relations of their atomic grouping by the attracting force of positive electricity; for, just as every magnet and each part of a magnet down to the smallest, has a north and south pole and every stick two ends, so every electrical charge has two signs—positive and negative. The attractions and repulsions of the positive and negative signs are the essence of electronic phenomena in all their manifestations.

This double property of electrons makes them sources of matter and sources of force as well, the dissociation of stable forms of matter furnishing the intrapatomic energy of the unstable forms of matter which we call heat, light,

electricity, etc.

Science now deems that manifestations of what we call energy are vibrating waves discharged from electrons acting individually or in collected units. These waves propagate with different lengths, swiftness, frequency, etc., ranging all the way from the infinitely limited motion of the electrons composing the densest of solid metals up to the nearly 2-quadrillion vibrations per second of the highest ascertained ray of light. It is the constant dance of substance, for inert matter does not exist.

Therefore, according to the most advanced thinkers of present-day science, the primitive world-forming unit is the electron, and electricity itself (in particular) is the specific form of the agitation of electrons which manifests itself in decomposition, magnetism, heat, light, etc,—and measured by the total kinetic energy of such agitation.

Electricity Man's Best Servant

A number of persons whose scientific attainments enable them to read a newspaper and absorb wisdom of Sunday Edition Symposiums on wonderful things are wont to stigmatize electricity as "mysterious", and as a claim to credit and proof of their own superiority, they assert that "they do not believe in it." "They"

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thus besmirch its character and place it in the list of those who are no better than they should be. This is keeping electricity back. But in the light of nature's physical laws it possesses the same mystery as fire, water, wind, acid, alkali, friction, cold, grass, atmospheric pres-

sure, or a beefsteak; but no more.

It is the expectation of men who have lived through the development of instruments of refinement which commenced with the first galvanometer of the late great genius, Lord Kelvin, that still further advance in delicacy of research and yet undiscovered apparatus will, in due time, determine the exact electrical conditions of physiologic activity in man, and will enable us to command and apply to the diseased organism the precise administration of electrical energy required by nature to restore to normal the physiologic balance of the cellular functions, the particular unbalancing of which is manifesting itself as a disease.

The past forty years have taken us far in this direction-much farther than the nonposted reader suspects—and we need not neglect the potent resources of the present while waiting for the revelations of the coming twenty

years.

Electricity will some day stand revealed to patients and physicians alike, as the most variously helpful and faithful servant ever heaven-sent to earth to be the hand-maiden of the healing art.

CHAPTER II

Life Phenomena and Electricity

The word "physical" means "pertaining to nature or to the body." The word "physiologic" signifies, "pertaining to the normal (natural) functions of the body and organs." The applications of the one to the other—going on all the time in the human organism—is nature's way of keeping us alive and well. Mechanical instruments for intensifying and directing dosage and action permit us to copy nature's own means to an important and growing extent.

To enable us to follow in her footsteps with what skill we can, some knowledge of nature's internal processes is necessary, and as a key to unlock part of the problem before us, we shall now point out how nature shows the way.

Internal electrical stimuli of various wave lengths are known to excite not only the functions of motor nerves and to induce the contraction of muscle-fibres, but they also operate the special senses, the work of glands, and the processes of nutrition. In short, according to

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some authorities of the present day, the whole machinery of life's movements is electrically driven. It was once ridiculed, but now it is so plain that it is obvious that no other means of inducing motion could by any possibility be applied to the internal human mechanism. Steam or compressed air certainly could not, nor could a clock spring be wound up to advantage within the intricate organism of the body. Yet, something must act as a motive power to maintain the ceaseless motion of living cells or they would no longer be living cellsthey would be stilled in death.

"Vital Force" Electrical

The electron theory of vibrations more and more throws light upon the once dark places of physiology. It is held that different nerve centers and different cells are tuned to impressions of different wave lengths, as in wireless telegraphy a tuned receiver will respond only to a similarly tuned impulse. Many years ago inductive reasoners argued that electricity and what they called "vital force" were identical, but for lack of modern instruments of demonstration the early physiologists rejected the idea that electricity and life had much in common. Now it is accepted that the workers of the body, the tireless energies of living matter, every cell and nerve in the breathing engine called man, sustain their marvellous toil under an electric drive.

The old aphorism that "labor is life" is expanded to disclose that electricity is the laborer which distributes the released energy of our foods, the combustion of which in the system by union which oxygen supplies the initial fuel and the heat for conversion into force-phenomena very closely analogous to the conversion of heat into force by the combustion of fuel in the steam engine and the generation of electricity by the engine-driven dynamo.

The elementary tissues of which the body and its organs are built up consist of four structural groups-epithelial, connective, muscular, and nervous. The supreme importance of the cell, the fact that cells are the living units of the organism, the growth of the body from cells, the dictum of Virchow, "every cell from a cell," intensifies our interest in the fact that

cells respond to electrical stimuli.

The power that certain tissues possess of responding by some change to the action of an external agent-taking up the external energy and transforming it into their own energy—is called "irritability" or "excitability", and this power is especially manifested in which bloodcorpuscles, ciliated epithelium, muscle-fibres,

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nerves, and the secreting glands. The agent which thus acts is called a stimulus. Such physical stimuli may be mechanical, chemical, thermic, or electrical, and they are regarded as "liberators of energy." As the disturbance of irritable structures by a stimulus is some form of movement, either visible or molecular, a stimulus is considered as added motion.

Living material is in a continual state of unstable chemical equilibrium, building itself up on the one hand, breaking down on the other, and the term used to express the sum total of these intra-molecular re-arrangements is metal-

bolism.

Electricity Stimulates Cells

The body is composed of cells. A cell possesses the power of breathing, that is, taking in oxygen; of nutrition, of building itself up from food materials; of excretion, or the getting rid of waste material; but the most obvious characteristic of most cells is their power of movement.

The physical energy of these powers of cells can be acted upon by the directed energies of physical agents; and beneficially so when applied in accordance with the physical laws of life. The protoplasm is therefore sensitive or irritable to stimuli, and shows its irritability by contraction or movement of its mass.

Moderate heat acts as stimulant. Weak electrical currents stimulate the movement of cells, while during the passage of a strong current the cells assume a spherical form and become motionless. When a gentle current is passed through water in which a number of tadpoles are swimming about they are seen to all fall in line and head in the direction of the current-flow. The relation of cells to various forms of physical and chemical stimuli, especially electricity and light-rays, has been recently very extensively studied. Cells move either from or toward the stimuli, according as they are electro-positive or electro-negative to it.

Cells must eat to live, and we know that electricity can promote appetite. They are nourished in the following way: When the blood is circulating through the thin-walled smallest blood-vessels certain of its fluid constituents escape by osmosis, or filtration, through the minute orifices which exist for this purpose, otherwise our digested foods could not reach the cells. The fluid part of the blood which thus leaves it to be eaten by the cells is called "lymph". It penetrates to all parts of the cellular elements of tissues and nourishes them. Electricity promotes the osmotic energy

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of electrolytic fluids such as the blood, by imparting "added motion" to the cells stimulated by it.

A Word About the Blood

During life the blood is in constant movement—circulating; leaving the heart by large arteries which divide into diminishing branches and reach their smallest size in thin-walled microscopic capillary hairs of vessels which leak out the lymph nutriment to the tissue-elements and remove from them the waste products of their activity, namely, the ashes left from the combustion of food-fuels burned up in the body in work.

The ashes are carried to the various excretory organs to be eliminated, and the excess of lymph, minus its deposited food materials, is collected again by lymphatic vessels which converge to the main thoracic duct which opens into the large veins near the heart. The lymphatic portion of the blood and the main blood stream returned from the arterial capillaries by the veins, now join in the heart and with fresh cargoes of oxygen and nutriment begin the same wonderful round all over again.

The blood is saline, faintly alkaline, a perfect electrolyte in itself, and is one of the best conductors of electric currents, after metals. By means of rightly directed electricity we can cause it to increase its intake and output of oxygen, accelerate osmosis (a most important factor in nutritional exchanges in all parts of the body), can also increase or decrease the amount and rate of blood-flow through a given part, and in some degree regulate the blood-pressure when it is either abnormally low or high. These responses to electrical stimuli are exceedingly-useful.

Nervousness Controllable

Almost every woman is aware that she has "nerves" and some of the teachings of physiology about them will assist us to understand and relieve a good many "nervous" conditions.

The central stations of our two-fold nervous system are the nerve cells in the nerve centers of the brain and spinal cord, and the ganglia of the sympathetics. Our voluntary activities are dominated by the cerebro-spinal centers, and the "sympathetics" preside over the processes of functions which are beyond direct control of our will. When we speak of centers we mean central cells; when we speak of nerves we mean simply the nerve-fibres which are the conducting portion of the nervous system. There are two directions that impulses must be carried—in and out—hence we have two main sets of

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nerves. Afferent (sensory nerves and nerves of the special senses) conduct impressions from the surface to central cells. The afferent nerves (those which conduct impulses from centers to other parts of the body) are classified according to function, as follows:

- Motor nerves, which supply muscles and muscle-tissues in the walls of arteries and intestines.
- Accelerator nerves, which control increases in the rate of rhythmical action, an example being the accelerators of the heart.
- Inhibitory nerves, which influence slowing of the rate of rhythmical action, or its complete arrest. The inhibitory nerves of the heart are a typical example, but many of the involuntary muscles have them also.
- Secretory nerves, which supply secreting glands, such as the salivary, gastric, and sweat glands. A stimulus to one of these nerves causes secretion in the gland it supplies.
- Trophic nerves, which preside over the nutrition of the parts they supply.

When a nerve is stimulated the propagation of some change is evident from the resulting effects—movement, secretion, sensation, etc—but the only alteration in a nerve which can be readily detected as evidence of molecular change is the electrical one. All tissues which can be excited to their characteristic action by a stimulus, have internally generated "action-currents" of electricity, those of nerves, muscles, secreting glands, ciliated epithelium, having been especially studied and demonstrated by Waller and numbers of his followers.

Electricity the Best Counter Irritant

Du Bois Reymond demonstrated that the spinal cord, like the nerves, exhibits an electric current. Gotch and Horsley investigated the currents of the cord very thoroughly. Electromotive changes also occur during activity in the cortex of the brain. In fact, throughout nature it is almost impossible to have action without electricity. Atmospheric electrical discharges occur on an enormous scale, as every one knows but every one does not remember that even the cleavage of atoms is an action that results in an electrical discharge. Friction produces electrical phenomena, and in every direction we see the processes of nature identified with electrical manifestations.

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Waller regards the current of action of any excitable tissue as an index of the magnitude of action, and while we can see a muscle contract and witness the results of secretion, yet in a nerve the only available index we can demonstrate is the electrical sign of activity.

In speaking of action currents Howell observes: "This phenomenon of a negative electrical condition traveling over the nerve or muscle and giving us an active current when led off through a galvanometer is of the greatest physiological importance, particularly in the study of nerves. It is an invariable sign of the passage of an excitation, or nerve impulse. A nerve cannot enter into activity without showing an electrical current, that is, a moving electrical charge."

The actions of tissues may be in response to a direct nerve stimulus or to a reflected nerve impulse. The latter action is called "reflex." It starts from a stimulus applied to the terminal filaments of sensory nerves on the surface of the body (or a nerve of special sense), travels inward to its central station and there propagates an outward impulse which sets up its action in the tissues that the "outward" connecting nerves supply. Thus deep organs as well as superficial tissues can be influenced by reflex action.

In medicine the theme of the reflexes is wonderfully fruitful of inspiration to the student of both medical and physical therapy. It is a great field for the application of the teachings of physical. The skin is full of starting points of reflex action and the entire skin is accessible to our reach. Modern scientific hydro-therapy is wholly the utilization of reflexes. Every good treatise on materia medica and therapeutics contains a section devoted to treatment by counter-irritation." Electric currents can be easily dosed and directed in their discharges so as to become the swiftest, best and most effective or counter-irritant agents in the whole of medicine. And that is only one phase of their comprehensive usefulness.

Electricity Commands Universal Admiration

Professor Elihu Thomson says: "I am quite convinced that ether is the electrical medium, light and radiant heat electrical, and the chemical and mechanical properties of matter in all probability electrical in essence; that matter itself is an electrical phenomenon."

Physiology states that the elements found in the body are carbon, nitrogen, hydrogen, sulphur, phosphorus, fluorine, chlorine, iodine,

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silicon, sodium, potassium, ealcium, lithium, iron, manganese, copper and lead. From this supply Nature has ample choice from which to equip her infinitely miniature "chemical cells." A battery cell the size of a thimble can generate enough current to cable an impulse across the Atlantic and Nature does not require a horse-power dynamo for the processes of her metabolism. Myriads of her nerve fibres are too small to be seen with the most powerful microscope.

It is therefore no longer difficult to comprehend the sources of internal self-generated, or self-liberated, electric currents of small magnitude to act as stimuli for the protoplasm and as conductors of impulses from nerve centers

to all parts of the body.

Physiology has long stated that the human body is a great "electrolyte" (which means, "any substance decomposable by electricity") and from this knowledge to its logical sequence that having the requisite conditions for the liberation and action of electric currents we therefore have the natural result, must be the unavoidable conclusion of science.

There is no doubt that Nature has the currents for use in the living body. The question

is, "What does she do with them?"

Skepticism and prejudice against high frequency electricity can mostly be resolved down to a case of "I didn't know" on the part of the non-posted majority. Admiration for this very exquisite ally of medicine increases with one's knowledge about it, and the authoritative facts cannot fail to impress even the most uninformed with the magnitude and dignity of this physiologic agent.

CHAPTER III

Life Phenomena and Electricity Continued

From nerves to muscles is a natural step. Muscle, the flesh of the body, makes up 42 per cent of our weight. Its great physiological function is contraction, with the disuse of which all other functions stop. With the normal exercise of muscle-function all functions flourish and strength grows.

Muscle undergoes many changes when it contracts. The chemical changes are more energetic than at rest and more heat is produced and its temperature rises. It also undergoes a change in its normal electrical condition. It first becomes electro-positive and then falls back to electro-negative, and in a succession of contractions (in all our work and move-

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ments) this electrical activity is going on in the muscles all the time. Hermann, in particular, has demonstrated and explained the actioncurrents of muscle tissues.

In the living animal, muscles are always in a state of "tonus," ready to contract when called on without losing time or energy in taking up slack. This important tonus is under the control of the nervous system, and it can be "toned up" (when weakened) by an electric current externally re-inforcing its own. We may demonstrate the immediate action of this by having a patient hold out his arm with a weight in hand until it is ready to drop. With the added tonus of an electric current he can continue to hold it out much longer without fatigue. In the treatment of debility no other means of energizing muscles and nerves, and thereby invigorating all other functions, can be compared with high-frequency electricity.

The Cause of Tired Muscles

The chemical changes in a contracting muscle consist in an increased consumption of oxygen, and an increased production of heat by oxidation, together with an increased output of waste materials. By electrical exercise of muscles we favorably affect the activity and amount of these chemical changes. The extraordinary physiologic beauties of the skilled exercise of muscles by this tonic stimulus and promoter of all functions, remain for the most part to the medical profession and the public, as the Garden of the Hesperides to a host of blind men. Yet in health or disease we may benefit by it.

To every person who has ever been "tired" the subject of fatigue, or the way to get rid of it, possesses intrinsic interest. We are apt to say that our muscles or our nerves are tired, but that is not so, as we shall now see.

The sense of fatigue in a muscle as the result of prolonged work is due to the combustion (burning up) of the substances available for the supply of energy in the muscle—but more acutely due in particular to the accumulation of waste products of contractions, which collect faster than they are carried out of the tissues.

By the method of "graphic tracings" the "curve" of a normal muscle is ascertained. Then it is studied under continued contractions. Fatigue gradually reduces the curve, prolongs the latent period of relaxation, and if carried to the end, makes further efforts at contraction impossible. If the arm muscles have been thus taxed the arm drops as if paralyzed and can no more be forced to further work in chronic fatigue than we can push on a string. This, is

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the heart-breaking and wage-destroying condition that overtakes the telegraph operator when he has "writers' cramp." There are fifty thousand cases of it in this country.

Fatigue Really Muscle Suffocation

The question of absorbing interest is, where is the seat of fatigue? The present writer puzzled over this question for many years, during which he personally treated more victims of writers' cramp than perhaps any other physician in this country. Is the fatigue in the nerve, the muscle, or the end-plates?

By tests and processes of exclusion physiologists have determined (and our own practical

experience confirms them) that:

- The muscle itself is not to any great extent the seat of exhaustion.
- The seat of exhaustion is not in the nerves. This cuts out two of the three local possibilities and there is only one left, there-
- The localized seat of fatigue is in the nerve end-plates but
- The fatigue toxins (the products of muscle metabolism during work) still more speedily jade the nerve centers and diminish their power to send out impulses. The central cells are far more sensitive to the toxins than are the working ends of the nerve-fibres, and hence they are first to express fatigue.

It is Nature's way of protecting us from overdoing. The chief waste products of muscle work are carbonic acid and sarco-lactic acid. Carbonic acid will stupefy any tissues that breathe an excess of it. Carbonic acid poisoning is asphyxia, and persons overcome by gas suffocate. It is a matter of common experience that one's mental state influences markedly the onset of fatigue and the amount of muscular work one can do.

What we call fatigue of our muscles is in reality an expression of too much carbon dioxide or carbonic acid in the motor centers, making the cells dull with the heavy drowsiness of narcotic. The remedy is to drive out the toxins and refresh the cells with oxygen, and fortunately we can make electricity do this, and do it easily and quickly.

The reason why the seat of fatigue is not in the nerves is still better. It is practically impossible to fatigue nerves. Waller, the great investigator of the nervous system, showed that

nerves are not fatiguable, not because no PAGE TWENTY

metabolic changes occur in transmitting impulses, but because the change is so slight and the possibilities of repair so great-the resupply of energy so inexhaustible—that fatigue in the ordinary sense of the word cannot be demonstrated in nerves. It is demonstrable only in the nerve cells of nerve centers. One of the greatest physiologists remarks: "When one considers how many of the nerves are in constant action throughout life we should hardly expect nerves to be peculiarly susceptible to real fatigue". This should be comforting to the thousands of people who have been told that they were suffering from "nervous prostra-tion." It is something else.

High Frequency Current Energize All Bodily Functions

We now come to the great function of Respiration, of which a philosopher has said:

'You live as long as you breathe."

In the central nervous system there is a small district called the respiratory center which gives out impulses that travel down the cord to the spinal centers that innervate the muscles of respiration. For breathing is a muscular process and our lungs are enabled to breathe only by the muscular work of their environ-

The importance of this physiological fact in this study of nature's methods arises from the readiness with which we can make high frequency electric currents stimulate, energize, and strengthen the contractions of every muscle concerned in the respiratory mechanism.

The respiratory center also receives various afferent nerve fibres which exert reflex influences. In the vagus nerve are two sets of nerve fibres, one of which increases the activity of inspira-tion and the other of expiration. The vagus can be readily stimulated by an electric current and the function of respiration energizes. It is one of the simplest things to do.

We can therefore direct high frequency electricity so as to make it functionate the respiratory muscles, re-establish their energy in debilitated states, enhance a diminished breathing capacity to as near normal as the essential damage (if any) to the air cells will permit, and (when there is no organic damage) completely and rapidly restore the whole mechanism-chest and lungs-to a sound state.

Examples of this action may be witnessed in the treatment of all stages of ordinary bronchitis, in the swift restoration of the organs after pneumonia, and is also demonstrated with great beauty in the treatment of incipient

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tuberculosis. In any case of tuberculosis not too far on the way to the third state, we may at least offer the help that a fresh horse gives a tired team on a hill, and this uplift alone is often the support and comfort of a few more years of life. In grave, though an incurable disease, the help of high frequency electricity is never to be despised. In purely functional inhibitions of part of the respiratory capacity we have over and over again in scores of cases made it release the center from its incubus and restore full breathing power, almost as the crack of a whip makes a small boy let go a hitch on the back of a wagon.

High frequency currents can be made to stimulate the functions and secretions of the cells of glands, the impulses of nerves, and the contraction and movements of muscle fibres. The physical conditions affecting digestion and under which nature carries it on can therefore be influenced by high frequency electricity.

Mechanical excitation of the stomach produces no secretion of gastric juice but electrical stimulation of the vagus nerve usually results in an abundant secretion of the gastric juices.

Conclusion

Of late years we have heard much about "Preventive Medicine." To some it seems to be the supreme mission of medical science, for an ounce of prevention is held to be better than cure—unless one is sick.

But what is preventive medicine? It is not a remote idyllic dream, nor altogether an abstruse problem in the higher mathematics of sanitation that nobody can understand but the Health Board. It is practical common sense. It begins right at home. Every breath of fresh air and every good square meal properly eaten is preventive medicine. So is a pair of dry stockings when the feet are wet.

Obviously, this is an important subject from all standpoints. We think it possible to put the gist of it in a few words. Practice intelligent discretion and common sense in the habits of daily life and always keep up to par. But if the system falls below par promptly restore its normal energies by the aid of high frequency currents. Lastly, if disease approaches, threatens attack, or makes an assault whether fierce or feeble, seek treatment at once.

The "refreshing" effect of a high frequency current on the tired body has spread its repute as a quick-rest tonic wherever it has been used. Said a gentleman recently—a gentleman of solid proportions and dignified age—"As the results of using it lately I feel like throwing

out my chest, expanding my lungs, and taking a deep breath. I feel buoyant, exhilarated, and like running and jumping." And here we have the keynote to the tonic action of this agent and its power to neutralize fatigue.

Sleep knits up the ravel'd sleeve of care and is nature's sweet restorer, but there are times when it is hard to get when most needed, and it can neither be forced nor condensed at will. As to drugs, we know of no medical prescription

that antidotes fatigue.

As a mere demonstration of the power of a high potential current to create the full sense of physiological rest we have taken a desk-worker at the limit of endurance, so fatigued and fidgety that he could no longer push upon his brain, applied a swift stimulus to the back of his head and upper spine, and in less than the lapse of three minutes he has been restored to condition for renewed and competent effort.

We have taken men on the verge of acute break-down from days of strain and anxiety in business and in a single and short treatment with a high frequency current have enabled them to face the crisis and fight back their fears. We have seen electricity put buoyancy into the steps of men sinking under cares of sleepless anxiety at home and high-pressure labor at their office. We have seen it take the drawn look from the face and the heaviness from the heart of women worn to the very edge of exhaustion. We have seen it release the tired teacher from the jaded mind of her routine, the tired scholar from the useless over-tax of examinations, the lecturer from the results of combining an editor's toil with his tasks of speaking, men attempting to double their salary by ending the day with eight hours duty at night and all these and many others we have rescued and given new vigor for their work.

There is a marked difference between the fatigue-effects of a brief period of over-work or strain and the effects of a slowly acquired worn-out state, and this difference must be taken into account in treatment. There is also a difference in the restorative needs of the person who is stiff and lame from extreme and unusual muscular exterion, and the needs of the brain cells that have been sleepless and irritable from excitement, worry, or mental tax. And we meet also a third class of fatigue resulting from mental and physical exhaustion combined. For all these states there may be other means of restoration (though for some of them time is not a cure) but the one swift and decisive tonic and quick means of rest is an electric current.

Taking high frequency currents in their entirety and their various modes of administra-

PAGE TWENTY-TWO

PAGE TWENTY-THREE

tion we have in them a powerful tonic to all nerve cells, nerve centers, nerve endings, and nerve functions, both of the sympathetic and cerebrospinal nervous systems and the nutritive energies of the trophic nerves; a potent tonic to the tonicity of muscle-fibres, the walls of blood-vessels, the force of the heart, the peripheral blood-pressure, the functions of vasomotors, capillaries and veins, an ozonizing tonic to the blood, to the red cell pigment, to the number of red cells, to the production of oxyhaemoglobin, to the activity of its absorption in metabolic exchanges, and the activity of phagocytosis; a tonic to the energies of respiration, the intake of oxygen, the activity of oxidation, the conversion of protein waste into urea and the destruction of uric acid; a tonic to the completion of combustion in the tissues, the production of heat energy and the maintenance of normal temperature; a tonic to the functional activity of the lymph vessels and absorbents and all the processes of absorption; a tonic to the secretions of glands and the excretory functions of all the organs of the body from liver and kindeys to skin; a tonic to nature's exercise and energy; a tonic to appetite and relish for food; a tonic to the elementary processes of metabolism, and physiologic stimulus to the living human machine.

Page Twenty-Foun

Let Little Tommy Tucker Make You Some Profits

This wonderful little Violet Ray Generator sells on sight—and does the same work as His larger Brothers.

The Violet : Ray

Machine for the Masses.

\$15.00



Strong and Sturdy

like his ancestor
Old Dan Tucker.

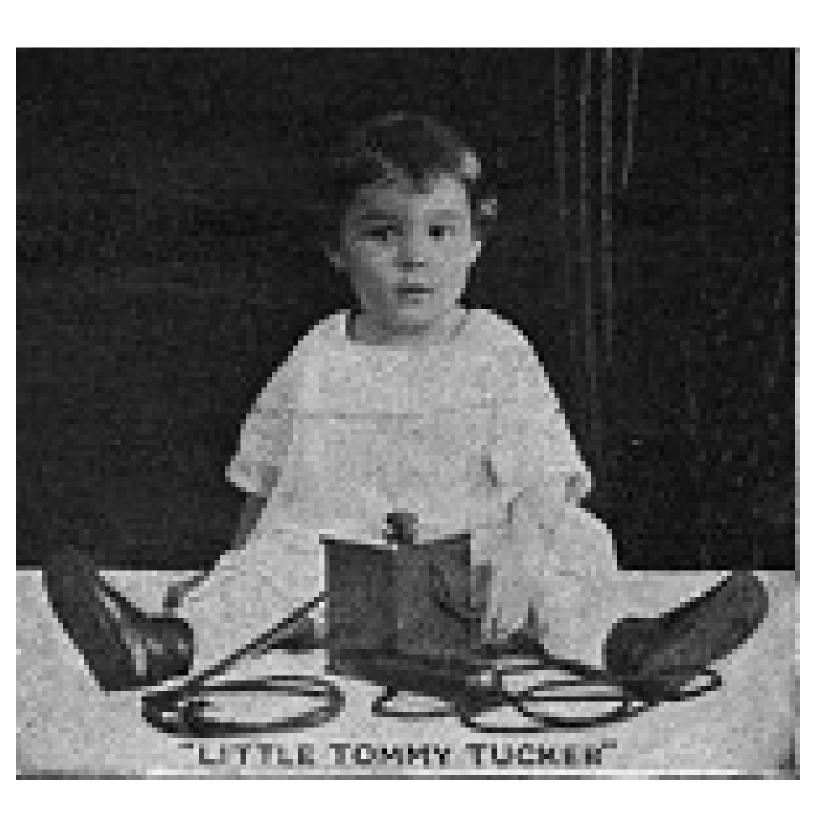
\$15.00

F.O.B. Cleveland, Ohio—Mahogany finished case— Hard rubber handle—surface electrode.

We are receiving inquiries from your towns every day. Why not put these machines in stock and let us refer our inquiries back to you. We furnish window cards and circulars. The people want Violet Ray now.

A better machine to sell at \$20. Comes in mahogany, finished case—silver pointed vibrator—hard rubber handle— Glass surface electrode—1 nickle saturator. Tucker's Violet Ray Supreme. Comes in leatherette carrying case 3 electrodes—platinum vibrator points—hard rubber handles complete \$30.

Tucker Mfg. Co., 118 Noble St., Cleveland, Ohio





Form 1/5000/1/22

CHART OF INSTRUCTIONS



FOR THE APPLICATION OF THE

High-Frequency Current:

KEY S Strong Med. Medium M Mild SS Shirt Spark LS Long Spark C Contact

This Chart of Instructions as to the use of VioRay High-Frequency machines has been edited by a Harley Street Specialist, and if same is carefully followed satisfactory results can be in most cases relied upon.

The details given are those used in cases where the particular disease in question has been quick to respond to such treatment. However, with continued use of the apparatus individual experience is quickly developed.

If a sedative effect is desired keep electrode in contact. If stimulating effect is desired, hold electrode away from surface, the farther away the longer the spark. A uniform spark of any length can be produced by administering the current through layers of towelling or through the clothing. The length of the spark depends upon thickness of the layers.

The indirect treatment is given by placing an electrode (No. 1, No. 2 or No. 13) in one hand of the patient, while the operator draws the current to any local point with the fingers or electrode No. 1.

Do not use high-frequency for scalp treatments with tonic containing more than 40% alcohol. Do not be afraid to use **VioRay** apparatus. It is **absolutely safe** in every respect.

DISEASES	REMARKS	Cur'nt	Elec'de No.	Tr'tue't Min.	Per Day	Method
Abscess	$\Lambda_{\rm Pl}{\rm dy}$ Electrode to developing Abscess to arrest its growth.	5	1	7-10	many	C
Alcohol & Brug Addictions	In alcohol, morphine or opium habits, apply over liver, solar plexus and spine. In cocaine use mild current to soles of feet, arms and legs to point of reddening. Do not follow this treatment if blood pressure is low. Also mas- sage abdomen with hand.	s	1 & 12	10-15	4	86
Asthma	Apply over the chest, pit of stomach and spine, and over throat glands. Also use Ozone Generator (No. 28).	s	1 & 2	10	as re- qu'z'd	C,
Ataxia	The current and spark should be as strong as the patient will tolerate. Apply to the spine, over huttocks, abdomes and back of legs. Gradually decrease treatments. Massage parts.	8	1 & 13	10-15	3	LN &
Barbers' Itch	Spark over surface and about edges. Do not try to remove in one treatment. Treat until you observe destruction of tissue, and let the intervals be determined by your judgment.	5	1	3-5	4	(%88
Bladder Disease (Cystitis)	Treat with Electrode No. 1 over the bladder. The urine will clear very quickly. Operator hold hand on patient's back to draw current. Use Electrode up back passage.	к	1	7	2	f.
Boils (Furunculosis)	Cover a reasonable surface around the boil as well as the boil itself.	Med	1	10-15	+	C.
Brain Fag	Apply to forehead over eyes, back of head and neck, down spine, and pit of stomach; and massage abdomen.	Med	1 & 12	10-15	3	*

Breast Development	Cover the entire area to be developed. Slight rubbing of breast when covered with Tale Powder.	Med	1	5-10	2	C
Bright's Disease.	Apply over the region of the kidneys. It will be noticed that albumen quickly disappears. Use medical remedies sup- plied by doctor.	н	1	15-20	2	c
Bronchitis	Ozone should be inhaled through the Ozone Generator as much as possible in connection with the treatment. Applications of the current should be to the chest and back, causing a radianing. Many to abdomen. Apply to spine.	8	1	10-15	many	LS
Bruises	Apply Ammonium Chloride Lotics, to parts.	Mod	1	5-10	3	88
Bunions	Apply Pet. Bicarb. Lotion to parts.	Med	1	5-10	4	C
Burns	If burn covers large area, use No. 1: if small, use one of the Electrodes with smaller point.	Med	644	3-5	ł	C
Chilbiains	Apply direct to affected part.	Mod	1	10	4	e
Cold Extremities	After treating extremities, apply to spine and massage abdomen as a tonic.	Med	1	10	4	c
Colds in Head	Apply over nose, above eyes and sides of face. Ozone Generator inhalations greatly assist; also applications in the nose with Electrode No. 11.	Med	1	5-10	4	c
Colds in Lungs	Treat chest and back, and inhale from Ozone Generator. Massage abdomen.	s	1	10-15	-4	SS&C
Dandruff	Shampoo the scalp before treatment.	Med	5	10	3	88
Deafness and Ear Diseases (See also Enruche)	Comfort of the patient should be the guide to length of treatment. Apply to bottom of back of ear, also inside of nose	М	11	2-7	many	C
Diabetes	Apply over the abdominal area. Results must not be expected short of two weeks. Observe proper diet. Use Powder, and massage abdomen for 20 minutes at a time.	s	1	10	3	85



DISEASES	REMARKS	Cur'nt	No.	Tr'tmn't Min.	Per Day	Method
Diphtheria	Apply to inside and outside of throat with No. 10 and No. 1. Use Ozone Generator as directed. Send for doctor at once.	Med	(444	10-15	hrly	ss*
)yspepsia	Apply Electrode to pit of stomach. Massage at the same time.	M&S	***	10	3	C
arache	Insert in ear. Syringe with weak soda and water.	M	10	5	hrly	C
pilepsy	Apply over the brain and along the spine. Massage abdomen. No. 1 to brain.	Med	. 6	5-14	many	0.
ye Diseases	Close eyelids, apply and repeat as desired.	Med	7	4	4	c
(Alopecia)	The hair usually keeps the Electrode away from the scalp, thus causing a beneficial spark. If pain is felt on account of attraction of blood, reduce current,	s	5	10	4	U&SS
lay Fever	Apply Electrode No. 1 over the nose and spine and No. 28 in nostrils. It is advisable to anticipate the trouble and begin before discomfort is felt	s	28	10-15	4	c
eadaches	Headaches are from varying causes. If relief is not had by applying to the seat of pain, cover the spine and stomach. Massage back of neck.	Med	1 & 13	5-15	many	25
leart Disease	Cover spine and solar plexus. Massage abdomen.	Med	1	5-15	3	88
lives and Rash	*** 114 014 100 100 100 100 100 100 100 100	Med	1	3 to 5	1	88
oitre	Follow this for about one minute with sharp sparks. Paint with Iodine.	s	2	5	3	C.
out	Pain may be felt at first. If so, begin with short treatment and increase. Massage abdomen.	Med	1	5-15	4	e
(Influenza)	Cover spine, solar plexus, over eyes and sides of nose. Inbalations from Ozone Generator will greatly aid. Internasal application by Electrode No. 11 is also beneficial.	Med	t	5-15	3	**
nsomnia	Cover back of head, neck and eyebrows in order mentioned	8	. 10	5-15	2	C
umbago	Since the object is to relieve pain, continue the treatment over painful areas until all pain is dispelled. Repeat treat ment whenever pain reappears until cured.	s	1	10	many	SS&C
lassage	Let patient hold metal Electrode in one hand, turning on current after it has been grasped. Masseur's fingers will draw the sparks to point massaged.	М	1 & 6	10-15	- 3	

Norvousness	Treat spine, but of head and new Immediate results, will	Med	F 26 13	5-13-	1 3	SSLC
The state of the s	be felt, Massage abdomen.	1000		-45	1	10000
Neuralgia	Apply to seat of pain, raising the Electrode occasionally to produce spark.	Med	- 1	3-10	many	C
Neuritis	Apply weak current at first; when relief is felt the current may be increased and a short spark given. Apply at seat of pain. Rub part softly.	М	E	10-15	many	c
Ovary (Pain)	Apply Electrode up front passage after douching.	M	***	10	2	c
Pains	Apply at seat of pain until relieved, with current and method that seem to give best results. If pain is at intervals, use Electrode suited to the orifice.	.eee	1 or 2			C
Piles (Hæmorrhoids)	Apply Electrode up back passage,	М	20-22	10	2	c
Pimples (Acne Vulgaris)	About the nose and other sharp angles a smaller Electrode is desirable. Where postules are forming, raise the Elec- trode slightly to give a short spark for a short time.	s	1	7-12	3	C
Pleurisy	Cover back and chest through underclothing until skin becomes quite red. Ozone Generator should also be used Massage abdomen.	s	1	10	many	Ç
Pneumonia	Apply Ozone Generator (as per directions given under illustration). Apply Electrode to back and chest through underclothing until flesh becomes red. Massage abdomen.	s	2	10	many	C
Psoriasis	Apply Electrode.	M&S	000	10	3	C
Prostate (Enlarged)	Apply Electrode up back passage.	M	20-22	10	3	c
Pyorrhœa	Inhalations from Ozone Generator are very beneficial. Place instrument before turning on current. Use Antiseptics to gums, also use fine Electrode to gums.	Med	12	5	4	С
Rheumatism	Rheumatism responds quickly, but arterial rheumatism requires longer treatment. Treat the affected parts until pain is dispelled. A change in the patient's position will expose other parts requiring treatment. Treat as often as pain reoppears. Rub marin gent!	8	2	10	many	88&0
Scars	The object is to remove the tissue st that new tissue may form—therefore use as strong a spark as tolerable.	8	2	10	4	LS &
Skin Diseases	Treatments may be taken as frequently as telerable.	Med	1	5-15	100	SS
6mailpox	Before the disease has broken out, give a general treatment to all parts of the body. If sores have appeared, treat each with No. 11 Electrode and cover the whole surface with No. 2. A short, strong spark is best. Treat about 30 minutes, two or three times a day.				j	
Sore Feet and Stone Bruises		Med	1	5-10	, no. 1	С
Sore Throat	### ### 6(# 5)% ### ### ### ### ### ### ###	M	3-12	5-8	many	c.
Sprains	If sprain is old, use sharp spark.	8	1	15-20	4	c
Stiff Neck or Joints	Rub gently.	s	1-2	5-15	many	ssæc
Yaginal (Discharge)	Apply Electrode up front passage, having used Antiseptics before.	Med	144	10	3	С
Writer's Cramp	Apply from finger tips to shoulder and upper spine.	Med	1	5-10	4	SS&C

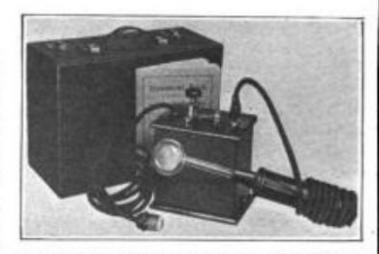
High Frequency Violet Ray Outfit

From Electrical Merchandising, Sept., 1920.

The most recent violet ray machine made by the Western Coil & Electrical Company, Racine, Wis., the "Reliance" outfit, is designed, the maker says, not only to give a wide range of high frequency but to work under continuous use without breakdown or diminution in current. It is intended especially for the use of physicians, osteopaths, chiropractors and barbers.

The outfit has a kicking coil and reco

The outfit has a kicking coil and resonator which are actually oversize for a machine of this type, therefore insuring, according to the maker, ample carrying capacity. The handle is the non-sparking type, and the working parts are encased in a mahogany box with ebony finished top. The carrying case is leatherette and is plush lined. One surface applicator and



bottle of specially prepared lubricant are

Fifty-five different types of electrodes are made by this company, each of which will fit any of its machines.



and

Direction for Treatment

with the

WHITE CROSS Violet Ray Generator

LESLIE D. SMITH, M. D.



Published by

NATIONAL STAMPING & ELECTRIC WORKS

3212-3246 West Lake Street

CHICAGO

FOREWORD

In publishing this booklet we have tried to be as clear, and concise as possible so that the novice will readily understand the treatment of ailments by the White Cross Violet Ray Generator.

There is no doubt as to the curative value of High Frequency, but we do not claim it as a "cureall." It will not cure any incurable disease, or any disease which requires other means of treatment. When in doubt about your condition consult a reliable physician.

A WORD OF CAUTION

All instruments when connected to the electric light current, commonly called commercial current, should not under any circumstances be used in the bathtub, or when any part of the body is in contact with a water, sewer or gas pipe, radiator or any other metallic fixtures, as this may cause a severe shock to the operator.

The above condition can also be caused by standing on a damp floor which is in any way connected to the ground.

Do not use instruments when connected to the commercial current during electrical storms.

The above conditions are true of any electrical apparatus operated on the electric light current.



WHAT IS HIGH FREQUENCY CURRENT?

High Frequency Current is an alternating (oscillating) current in which the frequency is beyond the point of producing muscular contraction. The pulsations or Vibrations are so rapid that they can not be conceived by the sensory nerves. This makes treatment with the White Cross Violet Ray pleasant to administer. Its great penetrating power enables deep seated, and ailments of long standing to be greatly benefited.

WHAT VIOLET RAYS DO

Through the glass electrode, by the use of powerful coils and condensors, is created electric energy, heat, light, ozone and thousands of minute vibrations per second. It also has a wonderful power over infections and its germ destroying powers are marvelous.

Violet Rays or High Frequency current is unipolar; that is, it does not require a complete circuit. From the electrodes you can readily see the rays flowing into space. These rays are capable of traversing long distances as ether waves do in wireless telegraphy and telephony.

In ordinary electricity glass is an insulator, but High Frequency currents easily pass through glass.

The High Frequency also generates enormous quantities of Ozone, which is so beneficial for many ailments.

It not only permeates every cell in the body but emanates from it.

The High Frequency Current produces a deep-seated cellular massage. The contractile effect is expended upon the individual cells making up the tissues, instead of an individual muscle. For this reason High Frequency Current produces such a marked effect on nutrition and general health.

Page Three

DIFFERENT METHODS OF TAKING TREATMENT

Short, frequent treatments are better than long applications.

General Application—Surface treatments can be either taken in direct contact with the skin and also through the clothing, or through a handker-chief or several layers of gauze. As any of the latter are resistances, treatment through them will cause small sparks to be transmitted from the electrode which penetrate deeply into the body. In many cases a spark is recommended, and all these treatments can be taken in this manner. The same results are obtained by holding the electrode a short distance from the skin,

All objects of metal as corset steels, hair pins, chains, should be taken off if they can not be avoided in the treatment.

Where no other treatment is advised, the electrode should be in direct contact with the skin.

Electrode can be placed on the part to be treated before the current is turned on, and the current turned off before the electrode is removed. This will eliminate the spark.

Indirect Application—This method of treatment requires two persons. The party to be treated holds the electrode in one hand. The other party either with the hand, finger tips or another electrode, draws the High Frequency Current to the area to be treated. This method is agreeable when delicate treatment around the eyes, nose, etc., is desired.

STIMULATION AND SEDATION

Stimulation—By holding the electrode a short distance away from the skin over the area to be treated, small stimulating sparks are produced. The stimulating actions are more beneficial than drugs.

Stimulating treatments are best produced by application through the clothing or through a towel which has been placed over the part to be treated. The length of the spark depends on the thickness of the material. Anything from a handkerchief to a doubled Turkish towel can be used. Powdering the skin with talcum powder often suffices to create the desired resistance.

Stimulation is invaluable in the treatment of Rheumatism, Lumbago, Neuritis, Skin Disease, or wherever circulation is needed.

Page Four

WHITE CROSS VIOLET RAY GENERATOR

Sedation—This is produced by holding the electrode in one hand or in contact with any part of the body. This treatment is very pleasant and highly beneficial. The quieting and tranquilizing effects are indispensable for nervous ailments.

INTERNAL TREATMENTS

All orifical electrodes, for taking internal treatments must be lubricated well before insertion. Internal treatments are not painful, in fact, there is on other sensation than that of beneficial warmth during the application.

Treatments should not last longer than five minutes. It is advisable during the application to move the electrode slightly, so as to avoid its sticking to the mucous membrane. It is also advisable to have someone perform the treatment. Properly sterilize the electrodes after each treatment. Internal treatments should only be taken under a physician's advice.

In taking these treatments always turn the current on after insertion of the electrode, and turn the current off before removing.

FULGURATION

In Fulguration or cauterization which is used to remove warts, moles, etc., electrode No. 25 should be used. Approach the point of the electrode to about one-thirty second of an inch from the spot to be cauterized. From a few seconds to one minute usually produces the desired results.

The application can be repeated after sufficient time has been allowed to determine the extent of the destruction of the tissue. This may be from two to several days. Several treatments usually give the desired results.

CARE OF ELECTRODES

Where there are several people using the instrument, care should be taken to thoroughly sterilize the glass or metal electrodes. This can be either done by boiling or placing them in a strong antiseptic solution, as crethol or lysol. Always rinse the sterilized electrodes in warm water before using.

Page Five

EFFECTS OF VIOLET RAY TREATMENTS

According to Noble M. Eberhart, M.D., Ph.D., D.C.L.

- 1. Increase blood-supply to a given area.
- 2. Increase oxidation and local nutrition.
- 3. Increase oxygenation of blood.
- 4. Increase intake of oxygen.
- 5. Increase output of carbon dioxide.
- 6. Increase secretions.
- 7. Increase elimination of waste products.
- Liberate ozone, with the resultant benefit of more or less of this ozone being inhaled by the patient, and also probably carried directly into the tissues.
- 9. Increase bodily heat, without a corresponding rise in temperature.
- 10. Locally germicidal.
- Mild and medium sparks stimulate or soothe according to length and character of application.
- 12. Strong sparks are caustic.
- 13. Sparks to spine increase arterial tension.
- 14. Promote absorption of plastic exudates or adhesions.

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BACK

BALD

BARB

BLACE

Page Six

DIRECTIONS FOR TREATMENT

- ABSCESS—Use electrode No. 1, in contact with the affected area. Mild treatment. Duration of treatment, seven to ten minutes. May be repeated a few times daily.
- ACNE (Pimples)—Use electrode No. 1, moving it slowly over the affected area for about six minutes. Powder the skin thoroughly with talcum powder to allow electrode to move freely. Where pustules are forming raise the electrode slightly to give a short spark for several seconds. If many pustules are present, treat through a handkerchief. Treatments should be taken three to five times a week.
- ANEMIA—Commonly called "Thin Blood." Use electrode No. 1, treating over the back, spine, abdomen and chest. Special attention given to treatment from the ninth dorsal down to the lumbar vertebra. (See Chart A.) It is well to use talcum powder over the parts to be treated. Duration of treatment, four to six minutes, once daily.

 Ozone inhalations are also of great value.
- ALCOHOLISM and Drug Addictions—Spinal Electrode No. 6, used with a sharp spark from the fifth to ninth dorsal. Electrode No. 1 with a sharp spark over Liver and Solar Plexus. See Chart A. Duration of treatment, six to eight minutes, daily.

Cocaine Habit—Electrode No. 1. Treat through a towel or clothing with mild current to the soles of the feet, and to the arms and legs. Duration of treatment, until marked reddening results.

Morphine or Opium—Treat same as Alcoholism.

Do not apply High Frequency current through the shoes.

- ARTERIOSCLEROSIS (High Blood Pressure)—Use electrode No. 1, over entire body. Medium strength. Duration of treatment, seven to eight minutes.
- ASTHMA—Electrode No. 1, applied over the chest, with as sharp a spark as can be tolerated. Also use Throat Electrode No. 4, on Throat Glands. Duration of treatment, six to eight minutes daily.
- BACKACHE—General treatment over the sore muscles with electrode No.

 1. occasionally using a medium spark, for five minutes daily.
- BALDNESS (or Falling Hair)—Use either electrode No. 1 or No. 3 but preferably the latter. Mild treatment at first, gradually increasing the strength, occasionally lifting the electrode to produce short sparks. Duration of treatment, four minutes daily, or two treatments of three minutes each, daily. The course of treatment must be an extended one. In connection with the treatment, a few minutes' use of an Electric Vibrator is strongly advised.
- BARBER ITCH—Use Electrode No. 1. Treatment through a handkerchief is advisable. Mild current. Duration of treatment, five minutes daily. Long continued treatments are needed.

BLACKHEADS-(Treat same as Acne.)

Page Seven

WHITE CROSS VIOLET RAY GENERATOR

BOILS-(Treat same as Abscess.)

BRAIN FAG—Use Electrode No. 1 with a medium spark to the forehead, over the eyes and to the back of the head and neck. Duration of treatment, five minutes. Then apply a sharp spark up and down the entire spine for four or five minutes, then over the abdominal region for three minutes, finishing up with a short application over the eyes and back of the neck. (Two or three minutes' inhalation of ozone after the high frequency treatment is desirable.)

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Muscles of the Face and Neck

- BRONCHITIS—Use Electrode No. 1, with a sharp spark, or treat through a heavy towel, over entire chest and back, until redness is produced. Ozone Generator should be used for five minutes. Repeat two or three times daily.
- BUST DEVELOPMENT—Respiratory exercises, deep, slow breathing, expanding the chest as much as possible in inhaling and expelling the air without force (slowly) three to ten times a day. Use electrode No. 1, moving it lightly over each side, from the neck downward, also from arm pit to arm pit, under each breast, pressing lightly upward. Duration of treatment, five to eight minutes.
- BUNIONS—Use Electrode No. 1, strong current applied over inflamed area, followed by a gentle spark. Treatment, six minutes daily.
- BRUISES—Treat with Electrode No. 1, over the injured area, and later with increasing spark as treatment progresses. Duration of treatment, two to three minutes.
- CALLOUSES—Electrode No. 1 can be used but we recommend Fulguration Electrode No. 25. Medium sparks and strong current from one to two minutes. Repeat as needed. Should soreness follow after fulguration treatment, treat over painful area with electrode No. 1 for a few minutes.
- CARBUNCLES—Use Electrode No. 1, treating over the carbuncle for five or six minutes daily. Use a medium current.

Page Eight

- CATARRHAL CONDITIONS—Use ozone generator two or three times daily, for at least five minutes at a time. Also use Nasal Electrode No. 19. Insert in nostrils, using a mild treatment for three minutes. Insert electrode before turning on current.
- CHILBLAINS—Use Electrode No. 1 over affected area, using a medium current. Duration of treatment, six to eight minutes daily.
- CONSTIPATION—Use Electrode No. 1, over the abdominal region, mild current from six to seven minutes. Repeat daily. Also treat from lower part of neck to hips, to stimulate dorsal and lumbar nerves to the intestinal tract and other internal organs. (See Chart A.)
- CORNS—Use Fulguration Electrode No. 25. Hold electrode 1/8 inch from corn and allow spark to pass into the hard tissue only. Medium current. Duration of treatment, fifteen to thirty seconds. For after relief use Electrode No. 1, applying for a few minutes. (See Fulguration, page 5.)
- the sides of face. Medium current from two to three minutes, three times daily. Use Ozone Generator several minutes each day. Mild current with Nasal Electrode No. 19 is also advisable.
- COLD IN LUNGS-Treat the chest and back in the same manner as ex-
- DANDRUFF-Same treatment as Baldness.
- DIABETES—Use Electrode No. 1, with a medium spark treating over the abdomen; also treat the spine from the first to the fourth cervical vertebrae, and from the fifth to the eleventh dorsal. Duration of treatment, seven to eight minutes, twice daily. Follow proper diet given under physician's care.
- DYSPEPSIA—Use Electrode No. 1, treat over stomach and solar plexus and along spine from the fifth dorsal down to the hips. Duration of treatment, six minutes, daily with a very strong current.
- ECZEMA—Use Electrode No. 1 over affected areas. Spark about ¼ to ¾ inch in length, at short periods, but during greater part of treatment keep electrode in light contact with the surface. Can be taken through a layer of cloth if desired. Treat from three to six minutes daily, mild current at first, increasing as can be tolerated.
- FALLING HAIR-Same treatment as for Baldness.
- FELONS—Electrode No. 1, treat over affected area, mild to medium current, three to five minutes daily.
- FLABBY BREASTS—Use Electrode No. 1, treating around and over breasts and on nipple. Medium current four to six minutes daily.
- FURUNCULOSIS (Boils)-Same treatment as Abscess.

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WHITE CROSS VIOLET RAY GENERATOR

GOITRE—Use throat Electrode No. 4. Keep electrode in light contact with the surface of the skin treating the sides of the neck as well as over the goitre itself. After a few minutes of this treatment, raise the electrode and use short spark with as strong a current as can be tolerated for two or three minutes. Treatment once daily.

GOUT—Use Electrode No. 1, over painful area, applying a medium current, and moving the electrode slowly about. A slight aggravation of pain may be present after the first few treatments, but relief will be felt after. No treatment should be taken during an acute attack. Duration of treatment, three to five minutes, daily, or three times a week,



Muscles of the Leg. (External Aspect)

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GRAY HAIR-Same treatment as Baldness.

GRIPPE (Influenza)—Use Electrode No. 1, with a short spark over spine and solar plexus; also mild direct treatment over eyes and sides of nose. Duration of spinal and solar plexus treatment, five to eight minutes, twice daily.

HAY FEVER—Electrode No. 1, medium current over and around the nose, also along the spine. Duration of treatment, four minutes. Also nasal electrode No. 19, with mild current in nostrils, for one minute, several times daily.

HEADACHES—Nervous headache. Treat with Electrode No. 1. Mild current over forehead, ears, and back of neck. Continue treatment until relief is experienced.

Headache due to stomach disorders. Use Electrode No. 1, mild treatment between and over the eyes, also treatment over abdomen with a short spark. Treat until relieved.

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HIGH BLOOD PRESSURE-(See Arteriosclerosis.)

INFANTILE PARALYSIS—Use spinal Electrode No. 6, holding electrode from ¼ to ½ inch from body. Treat from 1st cervical to 5th sacral, five to eight minutes, daily. Vibration is strongly advised, in connection with this treatment.

INFLUENZA-Same treatment as for Grippe.

INSOMNIA-Same treatment as for Brain Fag.

LUMBAGO—Use Electrode No. 1, with the muscles "on the stretch." Apply a strong current over the painful areas, using a medium spark. It is advisable to take this treatment through the clothes. Move electrode slowly about. Also treat over the lumbar muscles and lower dorsal and lumbar regions. Continue treatment until pain is dispelled.

MUMPS—Use throat Electrode No. 4, with a medium current, for four minutes, followed by short sparks for one minute once every day.

MOLES—Use fulguration Electrode No. 25, mild to medium current, treating for a few seconds at a time. (See Fulguration, page 5.)

NERVOUSNESS—With Electrodes No. 1 or No. 6, treat the spine, back of head and neck, using a mild current, increasing the current as treatment continues. Duration of treatment, three to five minutes, twice daily.

NEURALGIA—Use No. 1 Electrode, moving it slowly back and forth over the painful area, holding electrode in light contact with the skin. At times raise the electrode and apply a sharp counter-irritant spark which will quickly redden the surface. Duration of treatment, five to seven minutes, daily, gradually decreasing length of treatment.

NEURITIS—Use Electrode No. I, at the seat of pain. First use a mild current and apply from three to six minutes, daily, for the first few treatments, then continue with medium spark, with increased current as treatment continues. The first few treatments in most cases aggravate the pain, but continued treatments will bring about splendid results.

OBESITY—Apply Electrode No. 1 to the affected areas and treat consistently. Use strong current, treating from seven to ten minutes, twice daily. If there is no actual reduction in weight, there will be a redistribution of the fat, which greatly increases bodily comfort. Strict attention to the diet, exercise and personal hygiene must be observed.

PARALYSIS—Apply Electrode No. 1 over the paralyzed muscles and along spine, using a strong current, holding the electrode away from body so as to produce a half or three quarter inch spark. Treatment through a heavy Turkish towel is advisable. Duration of treatment, seven minutes twice daily. The last minute, or so, use the electrode in contact with the paralyzed muscles.

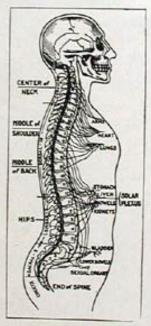
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WHITE CROSS VIOLET RAY GENERATOR

PAINS-Use Electrode No. 1, at the seat of the pain, with a medium or strong current, until relief is felt.

PLEURISY—Apply Electrode No. 1, medium current. Treat through a layer or two of clothing, and apply over both the chest and back, keeping up the treatment until a marked reddening of the skin occurs. Treat two or three times daily. Use only in connection with physician's advice.

PNEUMONIA—Same treatment as for Pleurisy. Ozone Generator should be used repeatedly. Consult reliable physician immediately for either Pleurisy or Pneumonia.



Showing Nerve Centers of Spinal Columns

PYORRHEA (Rigg's Disease)—Apply any suitable electrode, using a weak or medium current, for a few minutes daily. Consult a dentist as High Frequency is only an aid to establish a healthy condition of the gums, and on account of its germicidal character.

RHEUMATISM—High frequency currents are of exceptional value in muscular and in chronic articular rheumatism. Apply Electrode No. 1 to the painful area, using a medium to a sharp spark. During the treatment change positions frequently to keep the muscles on the stretch. It is advisable to take treatment through several thicknesses of cloth. Duration of treatment, eight to ten minutes, as often as pain reappears. In inflammatory rheumatism consult a physician.

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- SCIATICA—Apply Electrode No. 1 at the 4th and 5th Lumbar, and at the 1st, 2nd, 3rd, 4th Sacral Vertebrae, also at the 12th Dorsal. See Chart A. Also apply at lower part of the hip, and at the back of the leg. Hold electrode at such distance to produce one-half to one inch spark. Duration of treatment, eight to ten minutes, daily or every other day.
- SKIN DISEASES—Place a piece of gauze over area to be treated. Apply Electrode No. 1, moving it rapidly over part to be treated, for several minutes, twice daily. Where itching is very marked, longer and sharp sparks are best.
- SORE THROAT—Apply Throat Electrode No. 4 over affected areas. Treat with a medium current. Duration of treatment, five or six minutes, two or three times daily.
- SPRAINS—Apply Electrode No. 1 over painful areas, keeping it in light contact with the skin, moving it slowly back and forth over the sprain. Use medium current, and in cases of long standing treat with medium current through a towel. Duration of treatment, six to eight minutes, until relief is felt.
- STIFF NECK AND JOINTS (Torticollis or Wry Neck)—Apply Electrode No. 1, with a strong current, and treat through several layers of cloth placed over the affected area, also over neck region and down to fifth dorsal. Duration of treatment, three to five minutes, several times daily.

THIN BLOOD-See Anemia.

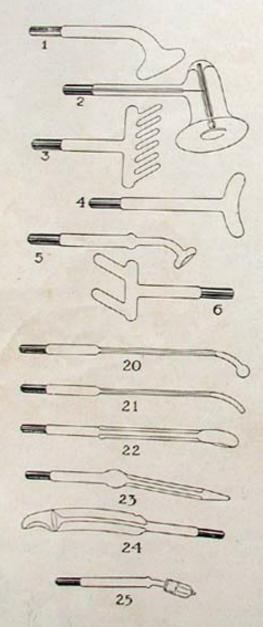
TONSILITIS—Same treatment as for Sore Throat.

- WARTS AND MOLES—Apply Fulguration Electrode No. 25, so that it rests directly on top of the wart or mole. Care must be taken so that sparks do not come in contact with the surrounding tissues. Use a weak current. A few seconds' treatment is usually sufficient. Wait two or three days for results and repeat operation if necessary.
- WHOOPING COUGH—Follow treatment for Asthma, but use also Ozone Generator, several minutes daily.
- WRITER'S CRAMP—Apply Electrode No. 1, medium current, applying it from the finger tips, to and including the shoulder area and upper spinal centers. Duration of treatment, five minutes, daily. A short spark is preferable providing it can be tolerated.
- WRINKLES—Apply Electrode No. 1, using medium current. Move slowly in a rotary movement. Duration of treatment, four minutes, twice daily.

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ELECTRODES FOR WHITE CROSS

Violet Ray Generator



No.

- 1 Surface Electrode
- 2 Condenser Electrode
- 3 Comb Electrode
- 4 Throat External Electrode
- 5 Eye Electrode
- 6 Spinal Electrode
- 19 Nasal and Ear Electrode Insulated 4
- 19-A. Nasal Electrode Plain &
- 20 Internal Throat Electrode Insulated
- 20-A. Throat Interior Electrode Plain #
- 21 Urethal Electrode Insulated
- 21-A. Urethal Electrode Plain 4
- 22 Prostatic Electrode Insulated
- 23 Rectal Electrode Plain
- 24 Vaginal Electrode Insulated
- 24-B. Vaginal Electrode Plain 4
- 25 Cautery Electrode
- 30 Ozone Generator #
- 4 Not Illustrated.

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Ext

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WH



No. 53 White Cross Violet Ray

Universal Current, Wide Current Regulation, Highly Polished Handle, Heavy Insulated, Good Carrying Case, Treatment Book, Fully Guaranteed. Complete with Surface Electrode.

Size-31/2x7x101/2"-Gross weight, 4 lbs.; net weight 31/2 lbs. Packed one in a carton.



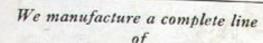
No. 54 White Cross Violet Ray Outfit

The No. 54 illustrated is a portable High Frequency Outfit De Luxe. Extremely compact, efficient, powerful, safe and economical.

The coils are mounted in a leatherette carrying case and weighs 334 pounds. Treatment book and instructions for operating are furnished free. Size 6½x6½x9 inches. Gross weight, 4¼ lbs. Net weight, 3¾ pounds.

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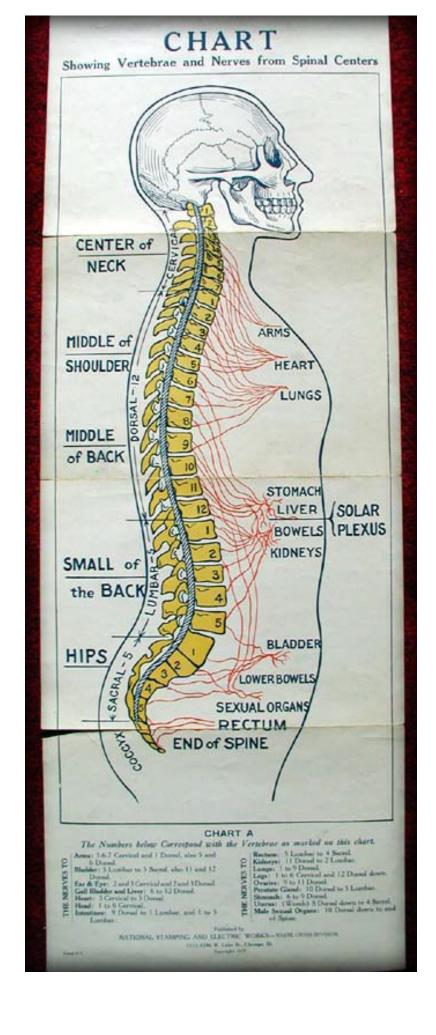
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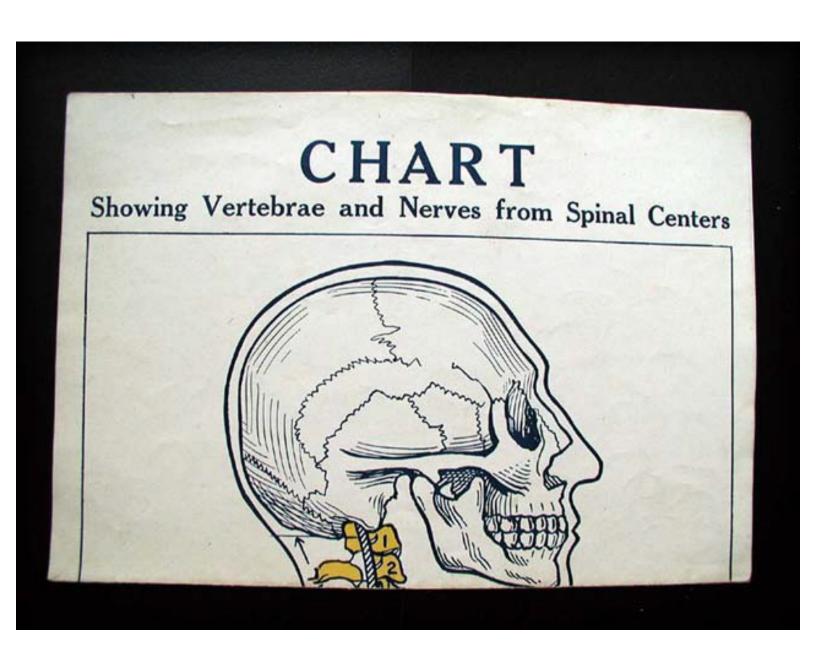


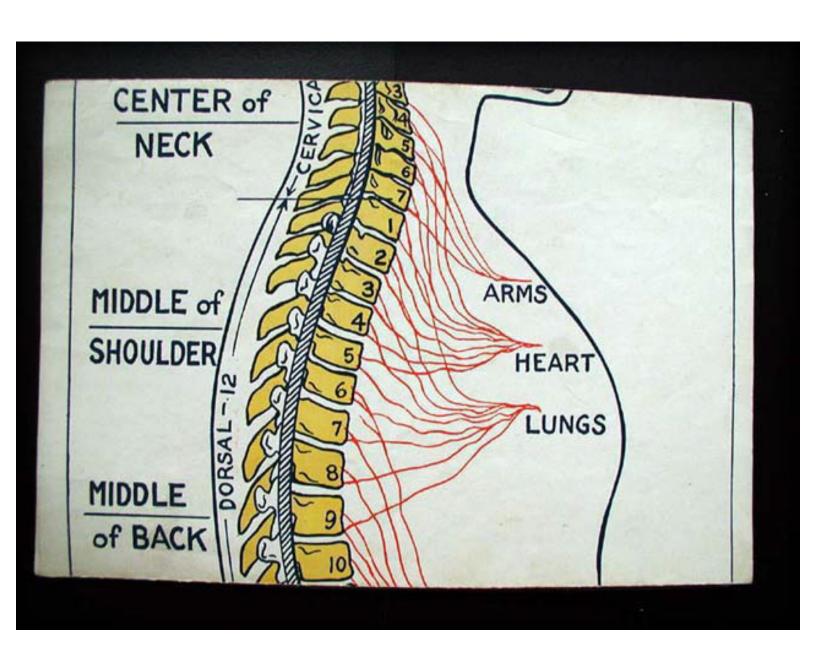
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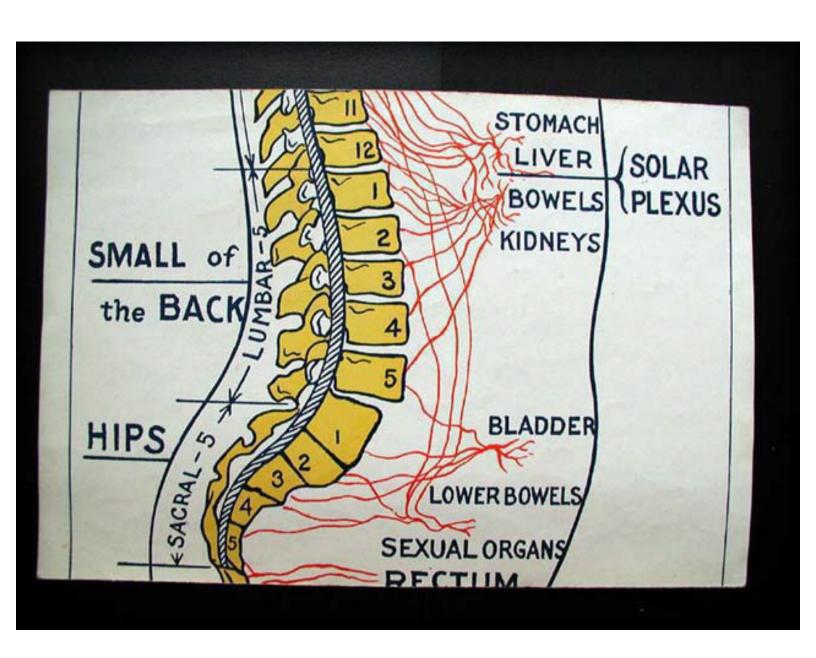
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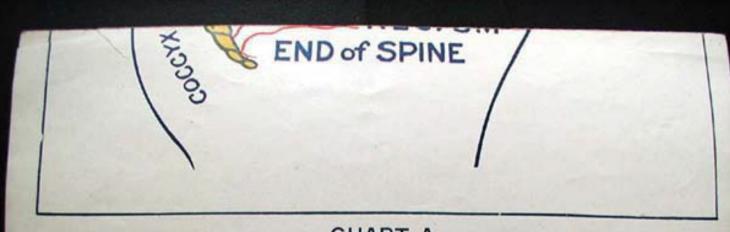


CHART A

The Numbers below Correspond with the Vertebrae as marked on this chart.

Arms: 5-6-7 Cervical and 1 Dorsal, also 5 and 6 Dorsal.

Bladder: 5 Lumbar to 5 Sacral, also 11 and 12 Dorsal.

Ear & Eye: 2 and 3 Cervical and 2 and 3 Dorsal.

Gall Bladder and Liver: 6 to 12 Dorsal.

Heart: 3 Cervical to 5 Dorsal.

Head: 1 to 6 Cervical.

Intestines: 9 Dorsal to 1 Lumbar, and 1 to 5 Lumbar. Rectum: 5 Lumbar to 4 Sacral.
Kidneys: 11 Dorsal to 2 Lumbar.

Lungs: | to 9 Dersal.
Legs: | to 6 Cervical and 12 Dorsal down.

Ovaries: 9 to 11 Dorsal.

Prostate Gland: 10 Dorsal to 5 Lumbar.

Stomach: 6 to 9 Dorsal.

Uterus: (Womb) 8 Dorsal down to 4 Sacral.

Male Sexual Organs: 10 Dorsal down to end
of Spine.

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